

CALENDAR FOR WATER YEAR 1973

1972

OCTOBER

S	M	T	W	T	F	S
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31						

1973

JANUARY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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30						

1973

Water Resources Data for Indiana



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the State of Indiana
and with other agencies

Prepared in cooperation with
Indiana Department of Natural Resources
Indiana State Board of Health
Indiana State Highway Commission
Corps of Engineers, U.S. Army

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
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Indianapolis, Indiana 46202

1974

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INTRODUCTION

Water resources data for the 1973 water year for Indiana, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water are given in this report. Records for a few pertinent gaging and water-quality stations in bordering states also are included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Indiana.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and contents of reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on pages 15 and 20.

COOPERATION

The U.S. Geological Survey and organizations of the State of Indiana have had cooperative agreements for the systematic collection of surface-water records since 1930. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

State Department of Natural Resources, J. D. Cloud,
director, through Bureau of Water and Mineral
Resources, W. J. Andrews, deputy director.

State Board of Health, W. T. Paynter, commissioner, and
R. C. Pickard, commissioner of Environmental Management

State Highway Commission, R. A. Boehing, chairman,
G. Hallock, executive director, and
N. W. Steinkamp, chief engineer.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 48 surface- water gaging stations and 5 water-quality gaging stations published in this report, and the Environmental Protection Agency, in collecting records for 5 water-quality stations published in this report. The following organizations aided in collecting records:

The city of Indianapolis, through its Board of Public Works and Sanitation and its Flood Control Board; cities of Anderson, Bloomington, Muncie, and Richmond; Indianapolis Water Co.; Indianapolis Power and Light Co.; Public Service Co. of Indiana; Container Corporation of America; city of Ft. Wayne Filtration Plant; Sanitary District of Chicago; and city of Hammond.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined as follows. See also table for converting English units to International System (SI) units on page 4.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

Table 1.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units herein to the International System of Units (SI). Reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
Inches (IN)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (sq m)
square miles (sq mi)	2.590	square kilometres (sq km)
	Volume	
gallons (gal)	3.785	litres (l)
	3.785×10^{-3}	cubic metres (cu m)
million gallons (10^6 gal)	3785	cubic metres (cu m)
cubic feet (cu ft)	28.32	litres (l)
	.02832	cubic metres (cu m)
cfs-day (cu ft/s-day)	2447	cubic metres (cu m)
acre-feet (acre-ft)	1233	cubic metres (cu m)
	1.233×10^{-6}	cubic kilometres (cu km)
	Flow	
cubic feet per second (cu ft/s)	28.32	litres per second (l/s)
	.02832	cubic metres per second (cu m/s)
	Mass	
ton (short)	.9072	tonne (t)

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein may include an estimate of that portion of the total drainage area which does not contribute directly to surface runoff.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Micrograms per litre ($\mu\text{g/l}$, UG/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (mg/l , MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 2, page 7. Concentration of suspended sediment also is expressed in mg/l , and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 3, page 7.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Runoff in inches (IN) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Table 2.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to millequivalents per litre

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
Aluminum (Al ⁺³)	0.11119	Iodide (I ⁻¹)	0.00788
Ammonia as NH ₄ ⁺¹	.05544	Iron (Fe ⁺³)*	.05372
Barium (Ba ⁺²)	.01456	Lead (Pb ⁺²)*	.00965
Bicarbonate (HCO ₃ ⁻¹)	.01639	Lithium (Li ⁺¹)*	.14411
Bromide (Br ⁻¹)	.01251	Magnesium (Mg ⁺²)	.08226
Calcium (Ca ⁺²)	.04990	Manganese (Mn ⁺²)*	.03640
Carbonate (CO ₃ ⁻²)	.03333	Nickel (Ni ⁺²)*	.03406
Chloride (Cl ⁻¹)	.02821	Nitrate (NO ₃ ⁻¹)	.01613
Chromium (Cr ⁺⁶)*	.11539	Nitrite (NO ₂ ⁻¹)	.02174
Cobalt (Co ⁺²)*	.03394	Phosphate (PO ₄ ⁻³)	.03159
Copper Cu ⁺²)*	.03148	Potassium (K ⁺¹)	.02557
Cyanide (CN ⁻¹)	.03844	Sodium (Na ⁺¹)	.04350
Fluoride (F ⁻¹)	.05264	Strontium (Sr ⁺²)*	.02283
Hydrogen (H ⁺¹)	.99209	Sulfate (SO ₄ ⁻²)	.02082
Hydroxide (OH ⁻¹)	.05880	Zinc (Zn ⁺²)*	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 3.--Factors for conversion of sediment concentrations in milligrams per litre to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-508	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

SPECIAL NETWORK

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 03335500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "335500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines.

Records in this report are in Part 3 (Ohio River basin), Part 4 (St. Lawrence River basin) and Part 5 (Upper Mississippi River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

SURFACE-WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a non-recording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating

tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum daily discharge (or minimum contents) are given under "EXTREMES." In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, is given under "REMARKS," for reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only, are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater

from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents.

Data collected at partial-record stations and miscellaneous sites are given in two tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures

used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Indiana for the period October 1960 to September 1965 are in Water-Supply Papers 1908, 1909, 1911, 1912, and 1915.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Indiana are compiled in Water-Supply Papers 1305, 1307, and 1308 through September 1950, and in 1725, 1727, and 1728 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

WATER RESOURCES DATA FOR INDIANA, 1973

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also, most gaging-station records are available in computer-usable form and many statistical analyses have been made.

WATER-QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, within the format for streamflow gaging stations.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous-temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations, and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for

Table 4.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

chemical constituents and concentrations of suspended sediment are now reported in milligrams per litre (mg/l), and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table 4 on page 18.

In October 1968 the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 5.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds of concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

At chemical quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each constituent measured. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

PublicationsTable 5.--Water-supply paper numbers and parts, water years,
1947-67

<u>Year</u>	<u>Parts 3-4</u>	<u>Parts 5-6</u>	<u>Year</u>	<u>Parts 3-4</u>	<u>Parts 5-6</u>
1947	1102	1102	1958	1571	1572
1948	1132	1132	1959	1642	1643
1949	1162	1162	1960	1742	1743
1950	1186	1187	1961	1882	1883
1951	1197	1198	1962	1942	1943
1952	1250	1251	1963	1948	1949
1953	1290	1291	1964	1955	1956
1954	1350	1351	1965	1962	1963
1955	1400	1401	1966	1992	1993
1956	1450	1451	1967	2012	2013
1957	1520	1521			

Other Data Available

At each stream-gaging station certain water-quality constituents have been collected at the time of each discharge measurement. Water temperatures have been collected since 1949, specific conductance since 1968, and pH since 1970. Data for these constituents may be obtained from the district office.

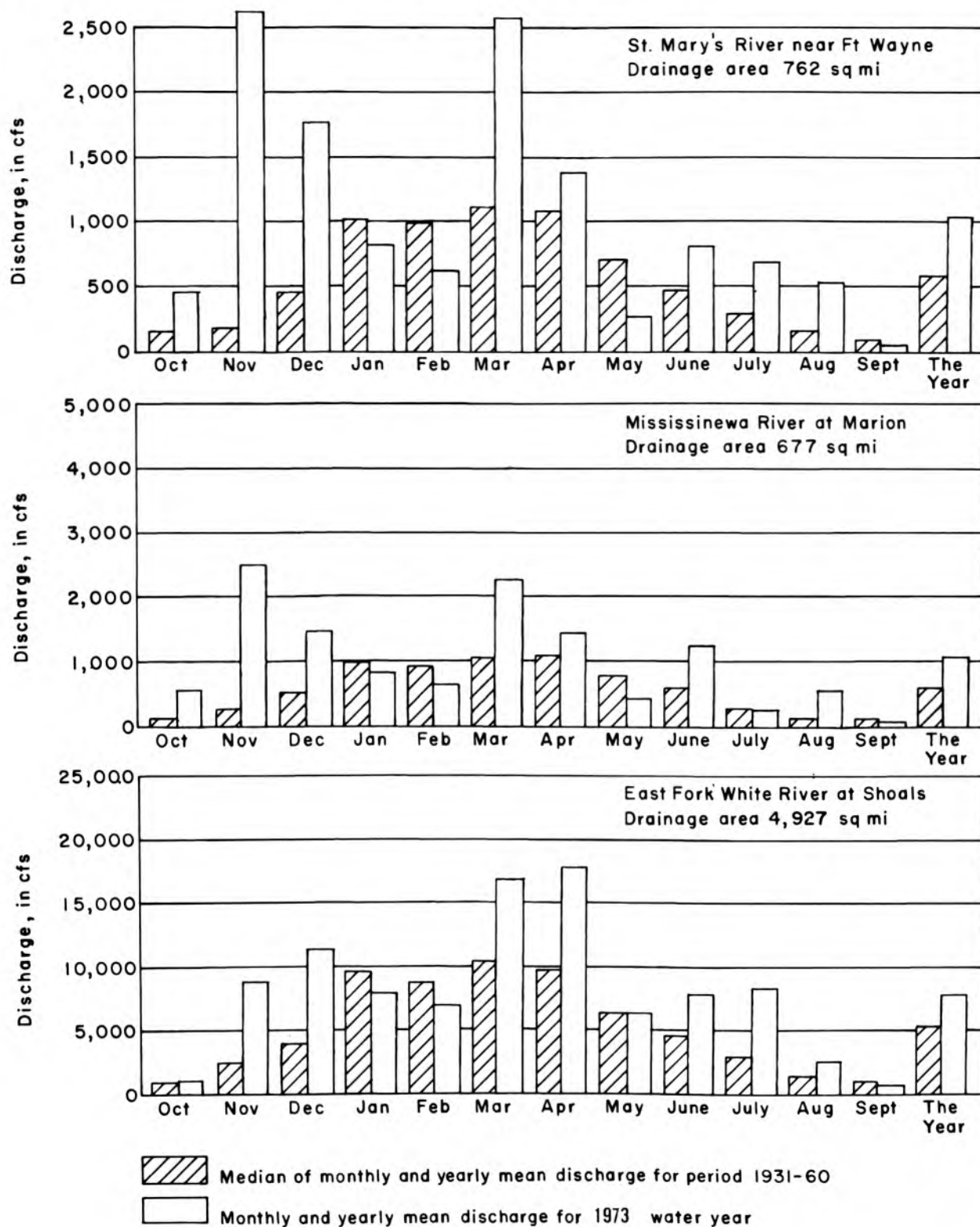
HYDROLOGIC CONDITIONS

Precipitation during the water year was above normal except in the north-central region. Generally, totals were about five inches above normal, with totals in the west-central region more than ten inches above normal. Storms occurred from November to August, with little variation in the amount of precipitation. Agriculture field work was hindered from October to mid-January due to excess water in the river-valley fields. No outstanding flood peaks occurred during the year, but peaks were moderately high at many different times. Yearly maximum discharges occurred in mid-November, mid-March, at the end of June, and at the end of July. Twelve peaks above base occurred on small streams and did not vary more than twenty percent.

October streamflow was normal except for flows in the Calumet and Kankakee River basins. Streamflow in these basins reflected rainfall in late September and a minor storm on the 25th. Precipitation at the end of October produced peaks above base on streams in the eastern part of the state. Heavy rainfall on November 13th produced maximum peak discharges on streams in the Whitewater, Upper Wabash, White River, and Maumee River basins. December was extremely wet throughout the month with storms on the 6th, 13th, and 31st. Yearly maximums occurred at the end of the month in the Middle and Lower Wabash, Calumet, St. Joseph, and Kankakee River basins.

Precipitation totals and streamflows were well below average for January and February. Thunderstorms crossed the state weekly during March, with a storm on the 11th causing peak discharges in the East Fork White River basin. Normal spring rains occurred during April with little flooding. May precipitation was well below normal. Heavy isolated summer thunderstorms began early in June and lasted well into August, causing peak discharges for the year on several small streams. An example was the thunderstorm on July 21st in the Bedford area, which totaled nearly thirteen inches. The flood peak at Back Creek near Leesville destroyed the gage. Peak discharge at this station was five times greater than the previous recorded peak and approached the 1913 flood peak.

An isolated thunderstorm on August 13th caused flooding in the Kokomo area and on the east side of Indianapolis. Streamflow recessed to normal by the end of August and remained normal through the end of the water year.



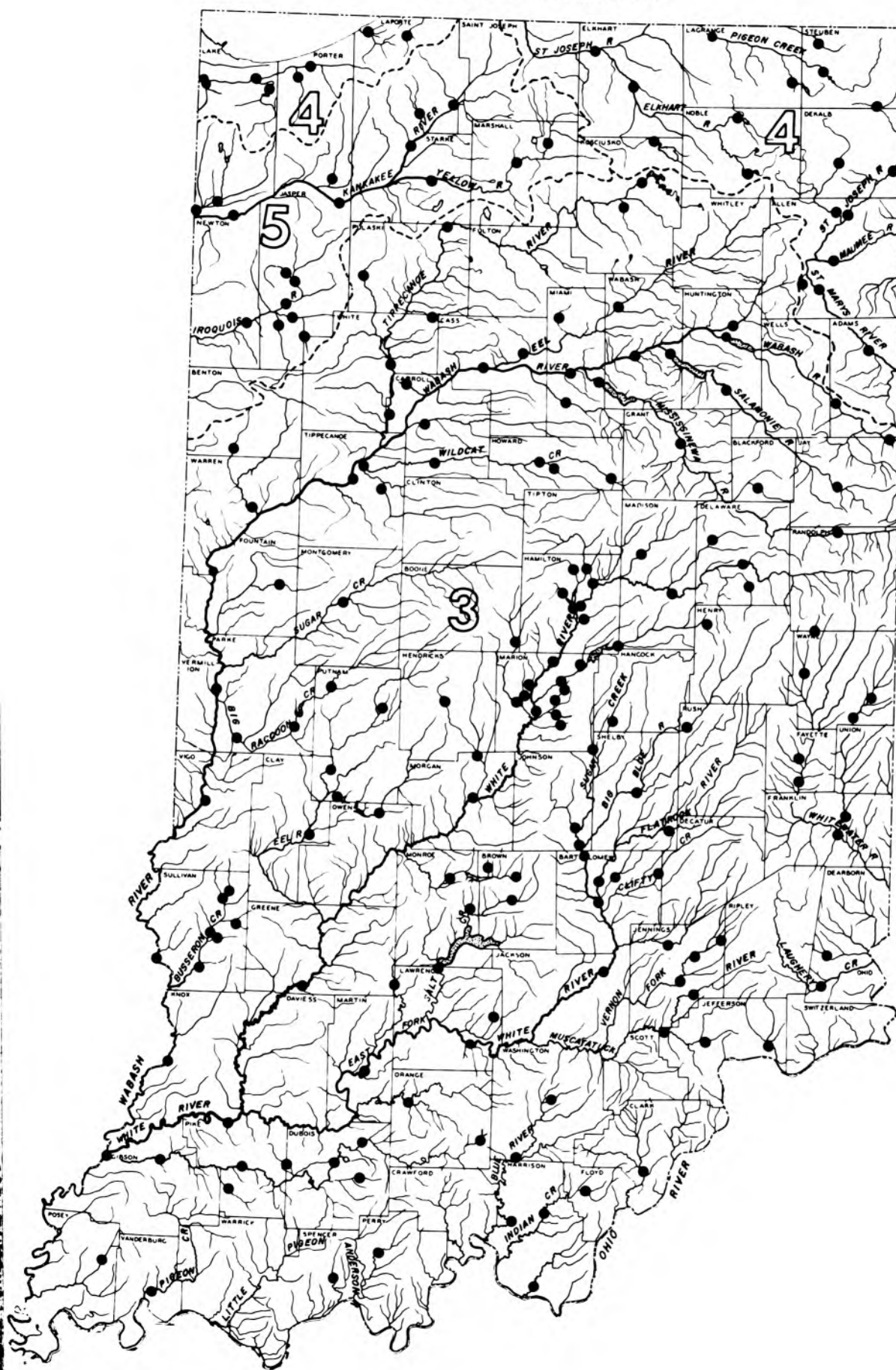
Comparison of discharge at three long-term representative gaging stations during 1973 water year with median discharge for period 1931-60

SELECTED REFERENCES

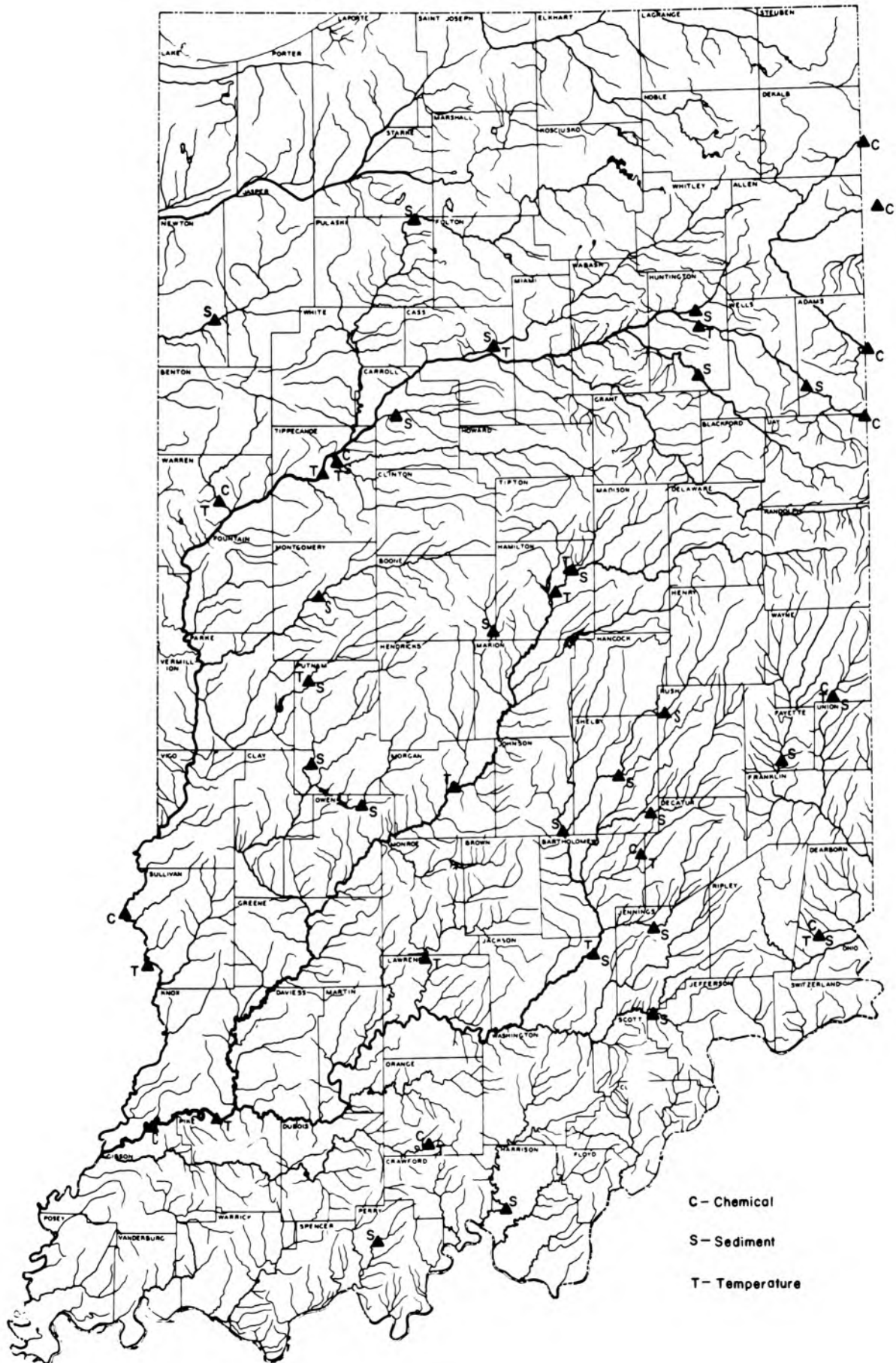
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GAGING STATIONS IN INDIANA



QUALITY OF WATER STATIONS IN INDIANA



03274650 Whitewater River near Economy, Ind.

LOCATION.--Lat 40°00'05", long 85°06'56", in NW 1/4 NE 1/4 sec.19, T.18 N., R.13 E., Wayne County, on right bank 6 ft (1.8 m) downstream from bridge on Wayne County Line Road, 1.7 miles (2.7 km) upstream from Little Creek and 2.4 miles (3.9 km) northwest of Economy.

DRAINAGE AREA.--10.4 sq mi (26.9 sq km).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,066.00 ft (324.917 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 630 cfs (17.8 cu m/s), Nov. 2, gage height, 7.24 ft (2.207 m); minimum daily, 0.99 cfs (0.028 cu m/s) Sept. 28.

Period of record: Maximum discharge, 630 cfs (17.8 cu m/s) Nov. 2, 1972, gage height, 7.24 ft (2.207 m); minimum daily, 0.35 cfs (0.010 cu m/s) Nov. 18, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	48	12	20	25	5.0	27	10	3.4	15	3.3	1.4
2	15	233	11	14	46	5.3	21	9.4	3.4	8.0	3.0	1.4
3	9.5	78	9.8	24	31	6.7	17	8.5	3.6	5.3	2.7	1.4
4	28	41	9.2	61	19	7.5	32	7.5	10	14	2.5	1.4
5	25	29	8.9	24	15	22	34	7.0	90	16	2.3	1.4
6	15	23	164	15	12	15	21	6.7	108	6.2	2.2	1.3
7	10	131	45	11	11	22	16	6.7	43	5.0	2.1	1.3
8	8.0	105	37	8.9	9.8	16	15	15	23	4.3	2.0	1.4
9	6.0	47	37	7.5	8.0	73	16	12	14	3.9	2.2	1.5
10	4.8	33	26	6.5	7.0	99	19	9.1	7.3	4.1	2.2	1.3
11	6.7	25	17	6.0	6.2	253	17	7.9	5.7	3.6	2.0	1.2
12	10	19	25	5.3	6.0	83	21	7.0	5.0	3.1	2.4	1.3
13	7.8	146	88	5.3	5.7	43	21	5.9	4.8	3.0	2.1	1.2
14	6.2	211	29	5.3	8.3	42	15	5.7	3.9	2.8	2.2	1.4
15	4.8	82	20	5.3	20	38	12	5.4	3.6	3.6	2.0	1.3
16	5.0	46	14	5.2	13	26	20	5.2	3.6	2.7	1.8	1.3
17	4.3	35	11	5.5	9.8	103	31	5.0	5.2	2.5	1.7	1.2
18	3.6	27	11	6.2	7.8	53	27	4.7	4.3	2.3	1.7	1.2
19	3.5	31	14	7.0	7.5	39	26	6.7	3.5	2.1	9.3	1.2
20	3.3	34	37	5.5	7.3	27	39	5.2	3.6	3.0	4.3	1.2
21	3.9	22	30	7.3	6.7	20	22	4.5	3.1	14	2.4	1.1
22	3.6	18	29	32	6.2	15	114	4.3	2.8	5.2	2.0	1.1
23	3.9	15	24	27	5.7	12	89	4.3	2.5	3.6	2.0	1.1
24	3.5	14	23	14	5.2	11	46	4.3	2.5	54	2.0	1.1
25	3.0	14	21	10	5.2	34	29	4.5	2.4	39	1.8	1.1
26	3.0	16	19	9.8	5.3	82	18	4.3	2.5	27	1.7	1.0
27	3.0	18	15	12	4.8	41	14	4.7	186	17	1.6	1.0
28	3.3	19	12	24	4.8	24	11	4.5	70	6.8	1.6	.99
29	3.3	15	12	21	-----	19	11	4.2	31	4.9	1.5	1.0
30	3.1	14	16	13	-----	19	11	4.0	21	4.1	1.5	1.0
31	3.3	-----	45	9.8	-----	27	-----	3.8	-----	3.6	1.5	-----
TOTAL	243.4	1,589	871.9	428.4	319.3	1,282.5	812	198.0	672.7	289.7	73.6	36.79
MEAN	7.85	53.0	28.1	13.8	11.4	41.4	27.1	6.39	22.4	9.35	2.37	1.23
MAX	30	233	164	61	46	253	114	15	186	54	9.3	1.5
MIN	3.0	14	8.9	5.2	4.8	5.0	11	3.8	2.4	2.1	1.5	.99
CFSM	.75	5.10	2.70	1.33	1.10	3.98	2.61	.61	2.15	.90	.23	.12
IN.	.87	5.68	3.12	1.53	1.14	4.59	2.90	.71	2.41	1.04	.26	.13
CAL YR 1972	TOTAL	5,434.09	MEAN	14.8	MAX	233	MIN	.82	CFSM	1.42	IN	19.44
WTR YR 1973	TOTAL	6,817.29	MEAN	18.7	MAX	253	MIN	.99	CFSM	1.80	IN	24.38

PEAK DISCHARGE (BASE, 200 CFS, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0600	7.24	630	12-13	0100	5.08	209	06-05	2000	5.06	206
11-07	1800	6.24	408	03-09	2100	5.56	283	06-06	0900	5.14	218
11-13	2300	6.93	552	03-11	0600	6.61	482	06-27	0400	6.68	496
12-06	0600	6.32	424	04-22	1300	5.76	316				

GREAT MIAMI RIVER BASIN

03274750 Whitewater River near Hagerstown, Ind.

LOCATION.--Lat 39°52'25", long 85°09'47", in NE 1/4 NE 1/4 sec.3, T.16 N., R.12 E., Wayne County, on left bank at downstream side of bridge on Jerry Meyers Road, 1.0 mile (1.6 km) upstream from Pronghorn Run, 1.5 miles (2.4 km) north of Interstate 70, 2.0 miles (3.2 km) downstream from Nettle Creek, and 2.6 miles (4.2 km) south of Hagerstown.

DRAINAGE AREA.--58.7 sq mi (152.0 sq km).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft (289.560 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

EXTREMES.--Current year: Maximum discharge, 1,860 cfs (52.7 cu m/s) Nov. 14, gage height, 9.75 ft (2.972 m); minimum daily, 17 cfs (0.48 cu m/s) Aug. 19, Sept. 13, 27-30.

Period of record: Maximum discharge, 1,920 cfs (54.4 cu m/s) Apr. 13, 1972, gage height, 9.91 ft (3.021 m); minimum daily, 11 cfs (0.31 cu m/s) Aug. 29-31, Sept. 5, 19, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	292	72	101	114	45	170	84	44	62	46	19
2	41	967	92	81	173	46	130	84	41	54	43	19
3	33	226	70	144	128	50	110	78	41	48	40	19
4	67	123	67	276	90	50	150	73	66	77	36	19
5	74	89	67	116	80	92	210	69	268	67	34	19
6	51	75	766	84	72	72	130	66	483	49	34	18
7	40	485	175	72	67	99	110	66	150	43	33	18
8	33	553	198	68	67	80	105	111	94	40	31	19
9	29	166	192	63	60	376	100	84	75	39	32	20
10	26	120	141	59	56	553	115	72	63	48	35	18
11	31	97	99	56	53	1,180	105	67	56	39	29	18
12	38	81	138	53	53	334	120	62	55	35	33	18
13	32	500	452	52	53	189	130	59	52	34	31	17
14	29	1,180	141	52	61	210	100	59	48	32	31	20
15	26	322	109	53	108	205	90	57	47	32	31	19
16	25	188	86	52	72	166	100	56	45	31	28	19
17	25	145	75	52	59	560	190	55	56	30	26	19
18	23	116	74	54	56	280	170	53	46	29	19	19
19	23	145	94	57	56	217	160	62	49	28	17	18
20	22	170	213	51	56	170	250	56	52	39	56	18
21	22	113	153	55	54	129	133	52	44	72	28	18
22	21	97	142	161	52	113	598	51	41	46	22	18
23	22	86	115	132	51	102	488	50	39	39	21	18
24	22	80	109	74	48	95	216	48	37	438	25	18
25	21	78	101	66	47	264	147	62	37	234	21	18
26	20	85	93	63	48	535	120	52	49	160	19	18
27	21	88	82	70	46	178	105	53	685	125	20	17
28	22	93	75	108	45	132	93	50	168	70	20	17
29	20	79	72	99	-----	125	85	48	94	57	20	17
30	20	74	83	73	-----	143	93	47	72	52	20	17
31	21	-----	196	66	-----	150	-----	45	-----	48	20	-----
TOTAL	960	6,913	4,542	2,563	1,925	6,940	4,823	1,931	3,097	2,197	901	549
MEAN	31.0	230	147	82.7	68.8	224	161	62.3	103	70.9	29.1	18.3
MAX	74	1,180	766	276	173	1,180	598	111	685	438	56	20
MIN	20	74	67	51	45	45	85	45	37	28	17	17
CFSM	.53	3.92	2.50	1.41	1.17	3.82	2.74	1.06	1.75	1.21	.50	.31
IN.	.61	4.38	2.88	1.62	1.22	4.40	3.06	1.22	1.96	1.39	.57	.35

CAL YR 1972 TOTAL 29,390 MEAN 80.3 MAX 1,180 MIN 12 CFSM 1.37 IN 18.63
WTR YR 1973 TOTAL 37,341 MEAN 102 MAX 1,180 MIN 17 CFSM 1.74 IN 23.66

PEAK DISCHARGE (BASE, 900 CFS revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1400	8.90	1,570	12-13	0300	7.31	1,090	04-22	1700	7.94	1,280
11-07	2400	8.53	1,460	03-09	2400	7.97	1,290	06-06	1200	7.00	1,000
11-14	0500	9.75	1,860	03-11	1300	9.61	1,810	06-27	0600	7.77	1,230
12-06	1100	8.39	1,420	03-17	0500	6.82	946	07-24	1700	7.88	1,260

03274950 Little Williams Creek at Connersville, Ind.

LOCATION.--Lat 39°38'16", long 85°10'20", in SW 1/4 NE 1/4 sec.27, T.14 N., R.12 E., Fayette County, on downstream right bank wingwall of bridge on State Highway 44, 1 mile (2 km) west of Connersville, and 2.6 miles (4.2 km) upstream from mouth.

DRAINAGE AREA.--8.62 sq mi (22.33 sq km).

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 842.00 ft (256.642 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 9.61 cfs (0.272 cu m/s), 15.14 in/yr (385 mm/yr).

EXTREMES.--Current year: Maximum discharge, 462 cfs (13.1 cu m/s) June 26, gage height, 5.86 ft (1.786 m); minimum daily, 0.98 cfs (0.028 cu m/s) Oct. 10.

Period of record: Maximum discharge, 684 cfs (19.4 cu m/s) Apr. 2, 1970, gage height, 7.82 ft (2.384 m); minimum daily, 0.46 cfs (0.013 cu m/s) Aug. 30 to Sept. 1, Sept. 16-19, 24, Oct. 7, 8, 1971, Sept. 1, 1972.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	34	7.0	14	18	7.1	27	13	5.2	8.4	5.2	1.9
2	1.3	39	6.5	12	30	7.5	24	13	4.9	7.5	4.7	1.9
3	1.1	9.7	6.0	18	20	8.4	20	11	12	8.4	4.4	1.7
4	4.1	5.6	5.5	23	16	8.4	24	10	32	14	4.2	1.7
5	5.6	4.7	5.0	15	14	17	30	10	91	8.4	3.8	1.6
6	2.4	3.9	100	12	12	12	20	9.6	56	6.4	3.8	1.7
7	1.5	12	40	10	11	26	18	9.6	21	5.7	3.6	1.7
8	1.2	20	35	9.2	11	18	22	20	14	5.4	3.4	1.8
9	1.1	11	35	8.0	9.6	85	23	11	11	5.2	3.2	1.9
10	.98	9.7	25	7.1	8.8	44	23	10	9.2	4.9	3.4	1.7
11	1.1	10	18	6.4	8.0	153	24	8.8	8.4	4.7	3.2	1.6
12	2.0	8.2	25	6.0	8.4	30	24	8.4	8.4	4.4	17	1.5
13	1.7	12	50	6.0	8.4	22	26	8.0	8.0	4.2	6.4	1.3
14	1.5	33	20	6.7	11	41	21	8.0	6.7	4.9	7.5	1.9
15	1.3	16	17	7.1	14	35	17	7.5	8.8	5.7	7.8	1.6
16	1.3	12	14	7.1	9.2	28	24	7.1	15	4.2	3.8	1.3
17	1.5	9.3	13	8.0	8.4	55	26	7.1	20	4.0	3.2	1.2
18	1.3	8.0	13	8.4	8.4	31	28	6.7	8.8	3.8	2.9	1.3
19	1.3	17	20	9.2	8.4	26	32	14	56	3.8	2.8	1.2
20	1.3	20	29	7.1	8.0	21	40	11	24	7.1	5.2	1.1
21	1.3	12	23	10	7.5	18	26	8.0	13	69	2.8	1.0
22	1.1	9.7	22	20	7.1	16	60	7.1	10	8.8	2.6	1.2
23	1.7	8.2	18	16	7.1	15	39	7.1	9.2	5.2	2.5	1.6
24	1.5	7.5	17	11	6.7	14	30	6.7	8.4	67	2.8	1.3
25	1.5	8.6	16	10	6.7	27	24	6.4	7.5	20	2.8	1.3
26	1.5	9.4	15	10	7.5	72	19	5.7	28	15	2.6	1.3
27	1.5	10	14	14	6.7	31	17	8.4	95	12	2.5	1.3
28	2.7	9.7	13	18	6.7	24	15	6.7	21	8.0	2.5	1.3
29	2.2	7.9	12	15	-----	24	13	6.0	13	6.0	2.4	1.5
30	1.8	7.9	15	12	-----	24	13	5.7	10	5.7	2.3	1.6
31	2.7	-----	25	11	-----	24	-----	5.4	-----	5.4	2.0	-----
TOTAL	55.08	386.0	674.0	347.3	298.6	964.4	749	277.0	635.5	343.2	127.3	45.0
MEAN	1.78	12.9	21.7	11.2	10.7	31.1	25.0	8.94	21.2	11.1	4.11	1.50
MAX	5.6	39	100	23	30	153	60	20	95	69	17	1.9
MIN	.98	3.9	5.0	6.0	6.7	7.1	13	5.4	4.9	3.8	2.0	1.0
CFSM	.21	1.50	2.52	1.30	1.24	3.61	2.90	1.04	2.46	1.29	.48	.17
IN.	.24	1.67	2.91	1.50	1.29	4.16	3.23	1.20	2.74	1.48	.55	.19

CAL YR 1972 TOTAL 3,082.49 MEAN 8.42 MAX 100 MIN .46 CFSM .98 IN 13.30
WTR YR 1973 TOTAL 4,902.38 MEAN 13.4 MAX 153 MIN .98 CFSM 1.55 IN 21.16

PEAK DISCHARGE (BASE, 180 CFS)

DATE	TIME	C. H.	DISCHARGE	DATE	TIME	C. H.	DISCHARGE	DATE	TIME	C. H.	DISCHARGE
12-06	unknown	5.23	361	06-05	0800	5.40	388	06-26	2400	5.86	462
03-09	1800	4.94	314	06-06	0700	4.17	191	07-21	0500	4.74	282
03-11	0400	4.97	319	06-19	2100	5.14	346	07-24	1300	5.25	364

03275000 Whitewater River near Alpine, Ind.

LOCATION.—Lat 39°34'23", long 85°09'27", in SW 1/4 SE 1/4 sec.14, T.13 N., R.12 E., Fayette County, on right bank 500 ft (152 m) downstream from highway bridge, 0.4 mile (0.6 km) downstream from Wilson Creek, 1.6 miles (2.6 km) northeast of Alpine, and 4.7 miles (7.6 km) upstream from Bear Creek.

DRAINAGE AREA.—529 sq mi (1,370 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: October 1928 to current year. Prior to October 1936, published as West Fork Whitewater River near Alpine.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 750.19 ft (228.658 m) above mean sea level. Prior to Nov. 9, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—45 years, 538 cfs (15.24 cu m/s), 13.81 in/yr (351 mm/yr).

EXTREMES.—Current year: Maximum discharge, 10,300 cfs (292 cu m/s) Mar. 12, gage height, 11.96 ft (3.645 m); minimum daily, 139 cfs (3.94 cu m/s) Oct. 22, 26, 27, 29, 30.

Period of record: Maximum discharge, 37,100 cfs (1,050 cu m/s) Jan. 14, 1937, gage height, 16.61 ft (5.063 m); minimum daily, 30 cfs (0.85 cu m/s) Aug. 6, 1934.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1143: 1943-44(M), 1947(M). WSP 1335: 1929-30, 1932(M), 1938, 1946-47(m), 1949-50. WSP 1505: 1942(P). WSP 1908: 1937(M), 1944, 1949(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	530	375	692	1,090	650	394	1,530	657	346	531	394	196
2	330	3,050	657	822	1,460	394	1,160	629	335	471	367	191
3	255	3,570	643	894	1,390	405	968	608	330	434	346	186
4	245	1,130	622	1,890	950	428	1,110	566	643	465	325	185
5	390	727	615	1,110	769	636	1,960	545	2,230	762	306	184
6	375	566	4,360	806	685	720	1,210	531	2,870	517	297	181
7	290	615	3,480	670	629	1,220	959	524	2,120	422	283	177
8	240	3,520	2,170	600	608	1,200	950	678	977	383	269	173
9	215	1,600	2,490	550	552	1,630	878	713	692	362	265	175
10	195	959	1,690	500	517	6,390	968	587	559	346	287	177
11	190	783	1,170	470	491	7,920	977	559	491	362	260	174
12	200	650	986	440	478	5,890	959	510	452	321	362	170
13	205	1,340	2,950	420	471	2,370	1,050	484	439	306	411	166
14	190	7,870	1,780	465	484	2,300	854	478	405	301	311	172
15	180	4,150	1,150	465	685	2,970	748	465	388	517	325	170
16	172	1,910	886	458	692	1,840	727	452	434	394	311	162
17	168	1,290	776	452	538	3,980	1,270	445	497	330	281	161
18	164	1,000	734	452	531	2,850	1,890	434	439	297	256	160
19	160	1,010	748	465	504	2,260	1,900	587	580	283	234	158
20	155	1,670	1,420	445	491	1,630	2,420	517	650	287	282	157
21	143	1,180	1,490	434	471	1,140	1,550	422	439	2,750	500	158
22	139	942	1,390	699	452	902	1,440	399	377	822	389	158
23	143	830	1,160	1,170	445	776	4,200	388	351	510	308	158
24	143	755	1,020	734	428	706	2,550	383	335	2,030	277	156
25	143	727	950	594	417	862	1,470	372	325	2,380	265	153
26	139	755	870	552	417	5,040	1,080	388	356	1,760	248	152
27	139	783	783	601	411	3,150	878	399	3,220	1,150	233	151
28	143	822	727	713	394	1,610	762	394	2,000	699	222	150
29	139	769	685	1,020	-----	1,230	671	377	926	531	213	150
30	139	720	755	713	-----	1,300	636	377	657	452	212	148
31	143	-----	1,680	615	-----	1,180	-----	367	-----	411	204	-----
TOTAL	6,402	46,068	41,529	21,309	17,010	65,323	39,725	15,235	24,863	21,586	9,243	5,009
MEAN	207	1,536	1,340	687	608	2,107	1,324	491	829	696	298	167
MAX	530	7,870	4,360	1,890	1,460	7,920	4,200	713	3,220	2,750	500	196
MIN	139	375	615	420	394	394	636	367	325	283	204	148
CFSM	.39	2.90	2.53	1.30	1.15	3.98	2.50	.93	1.57	1.32	.56	.32
IN.	.45	3.24	2.92	1.50	1.20	4.59	2.79	1.07	1.75	1.52	.65	.35

CAL YR 1972 TOTAL 227,132 MEAN 621 MAX 7,870 MIN 96 CFSM 1.17 IN 15.97
WTR YR 1973 TOTAL 313,302 MEAN 858 MAX 7,920 MIN 139 CFSM 1.62 IN 22.03

PEAK DISCHARGE (BASE, 6,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1600	11.90	10,200	03-12	0100	11.96	10,300
12-06	2300	10.03	6,850				

03275000 Whitewater River near Alpine, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 31...	1220	11.0	43	7	82
DEC. 11...	1220	5.0	383	109	113
JAN. 10...	0940	.0	118	133	42
MAY 24...	1445	16.5	237	37	24
AUG. 07...	1610	23.0	98	14	3.7
SEP. 28...	1530	22.0	38	59	6.1

GREAT MIAMI RIVER BASIN

03275500 East Fork Whitewater River at Richmond, Ind.

LOCATION.--Lat 39°48'24", long 84°54'26", in NW 1/4 SW 1/4 sec.8, T.13 N., R.1 W., Wayne County, on left bank 50 ft (15 m) downstream from highway bridge, 0.8 mile (1.3 km) south of Richmond, and 1.5 miles (2.4 km) upstream from Short Creek.

DRAINAGE AREA.--121 sq mi (313 sq km).

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 854.01 ft (260.302 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 27, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 118 cfs (3.342 cu m/s), 13.24 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,240 cfs (91.8 cu m/s) Nov. 14, gage height, 6.74 ft (2.054 m); minimum daily, 17 cfs (0.48 cu m/s) Sept. 27, 28.

Period of record: Maximum discharge, 15,000 cfs (425 cu m/s) July 20, 1969, gage height, 12.68 ft (3.865 m), from rating curve extended above 5,000 cfs (142 cu m/s) on basis of contracted-opening measurement of peak flow at stage of 12.44 ft (3.792 m); minimum daily, 1.2 cfs (0.034 cu m/s) Aug. 1, 1954.

Flood in March 1913 reached a stage of 15.0 ft (4.572 m), discharge not determined, from floodmarks.

REMARKS.--Records good. Some regulation at low flow by powerplant upstream from station. Natural flow also affected by diversion of municipal water supply by City of Richmond.

REVISIONS (WATER YEARS).--WSP 1235: 1951. WSP 1908: Drainage area, 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	148	116	235	120	63	347	141	63	94	76	27
2	24	1,070	102	160	250	63	245	137	58	76	67	26
3	22	441	94	148	309	69	198	127	61	65	61	24
4	69	225	92	369	202	79	270	109	134	106	52	23
5	152	152	92	240	160	109	430	99	633	92	49	22
6	102	113	1,410	160	137	152	255	94	622	63	45	22
7	69	193	468	123	120	402	202	94	375	50	40	19
8	50	512	397	100	123	397	211	152	189	45	37	20
9	40	245	468	90	99	353	202	156	134	42	37	22
10	33	180	331	80	90	1,050	245	127	102	40	43	22
11	43	175	216	70	84	1,610	255	116	86	43	43	20
12	39	145	193	66	79	617	255	99	81	34	67	19
13	34	562	595	66	76	336	281	94	79	30	47	19
14	34	1,970	314	69	81	364	202	89	63	50	81	20
15	31	567	211	65	152	666	167	86	58	152	97	21
16	28	320	150	63	171	342	167	81	63	79	58	19
17	26	220	130	65	130	925	375	76	74	49	43	19
18	25	175	120	67	106	540	463	72	58	37	37	19
19	24	193	137	74	97	452	397	97	50	33	33	19
20	20	375	331	69	94	336	342	134	86	58	276	19
21	21	240	303	67	89	245	240	99	74	235	127	19
22	22	180	276	145	81	198	225	81	52	156	67	19
23	25	148	225	298	79	171	413	76	43	86	50	21
24	20	130	193	167	69	160	331	74	40	815	56	21
25	19	127	175	127	67	193	216	72	39	727	47	19
26	19	145	164	113	69	903	175	74	45	710	42	18
27	22	156	145	145	67	523	160	86	732	369	37	17
28	26	184	127	184	65	292	148	86	325	184	33	17
29	25	148	113	250	-----	265	130	81	198	127	31	21
30	23	130	116	156	-----	380	130	74	127	97	30	21
31	28	-----	331	120	-----	314	-----	67	-----	84	27	-----
TOTAL	1,148	9,569	8,135	4,151	3,266	12,569	7,677	3,050	4,744	4,828	1,836	614
MEAN	37.0	319	262	134	117	405	256	98.4	158	156	59.2	20.5
MAX	152	1,970	1,410	369	309	1,610	463	156	732	815	276	27
MIN	19	113	92	63	65	63	130	67	39	30	27	17
CFSM	.31	2.64	2.17	1.11	.97	3.35	2.12	.81	1.31	1.29	.49	.17
IN.	.35	2.94	2.50	1.28	1.00	3.86	2.36	.94	1.46	1.48	.56	.19

CAL YR 1972 TOTAL 46,108.6 MEAN 126 MAX 1,970 MIN 9.6 CFSM 1.04 IN 14.18
WTR YR 1973 TOTAL 61,587.0 MEAN 169 MAX 1,970 MIN 17 CFSM 1.40 IN 18.93

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0400	6.74	3,240	03-11	1400	6.20	2,810
12-06	1300	6.00	2,660	07-25	1100	5.57	2,360

03275600 East Fork Whitewater River at Abington, Ind.

LOCATION.—Lat 39°43'57", long 84°57'35", in NE 1/4 SW 1/4 sec.2, T.12 N., R.2 W., First principal meridian, Union County, at downstream side of center pier of bridge on county road at Abington, 3 miles (5 km) downstream from Elkhorn Creek, and 8 miles (13 km) southwest of Richmond.

DRAINAGE AREA.—200 sq mi (518 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: October 1965 to current year.

CHEMICAL ANALYSES: October 1969 to current year.

WATER TEMPERATURE: August 1970 to September 1971, March 1973 to current year.

SEDIMENT DISCHARGE: April 1967 to current year (partial-record station).

GAGE.—Water-stage recorder and temperature recorder. Datum of gage is 791.00 ft (241.097 m) above mean sea level.

AVERAGE DISCHARGE.—8 years, 231 cfs (6.542 cu m/s), 15.68 in/yr (398 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	320	198	421	274	120	608	254	104	152	165	
2	48	1,910	165	286	564	125	465	254	98	128	149	58
3	45	695	152	329	503	143	385	234	98	114	130	54
4	89	343	149	695	352	152	641	206	334	198	117	54
5	198	234	149	426	295	278	725	185	1,400	185	106	54
6	136	175	2,710	282	254	270	476	175	1,340	117	102	
7	91	360	814	214	222	897	390	175	737	93	95	52
8	71	876	862	170	230	653	421	320	380	80	91	49
9	62	415	911	140	185	925	400	258	270	77	87	48
10	53	307	608	130	165	1,830	476	210	202	75	102	50
11	66	299	405	120	149	3,500	476	191	168	75	102	50
12	65	234	380	110	143	1,140	498	172	178	65	155	48
13	56	1,060	1,160	110	143	619	498	159	168	59	109	47
14	53	3,500	575	117	185	1,110	375	152	128	89	172	44
15	49	1,090	400	117	395	1,300	325	149	117	202	181	47
16	47	542	291	114	307	707	415	139	136	117	120	42
17	47	385	250	117	210	1,960	695	133	159	78	98	42
18	45	295	230	122	191	1,000	814	125	120	64	85	42
19	45	356	266	136	182	794	713	226	125	58	80	42
20	40	635	677	117	172	602	683	218	246	149	803	42
21	40	410	586	133	162	459	476	162	146	897	251	43
22	40	307	525	410	149	380	432	143	109	352	134	42
23	47	250	426	531	143	338	725	139	93	185	99	43
24	44	218	361	286	128	312	586	133	83	1,490	111	44
25	43	210	320	218	122	514	421	128	82	2,300	94	42
26	40	258	245	198	130	2,030	347	133	111	1,600	81	
27	41	278	254	303	122	925	316	168	1,390	788	74	39
28	56	307	222	426	120	564	291	152	531	392	69	39
29	50	246	198	459	-----	569	250	139	316	270	65	39
30	47	218	218	282	-----	689	246	128	202	214	63	42
31	50	-----	707	222	-----	602	-----	114	-----	181	61	46
TOTAL	1,865	16,733	15,464	7,741	6,197	25,507	14,569	5,474	9,571	10,844	4,151	1,386
MEAN	60.2	558	499	250	221	823	486	177	319	350	134	46.2
MAX	198	3,500	2,710	695	564	3,500	814	320	1,400	2,300	803	58
MIN	40	175	149	110	120	120	246	114	82	58	61	39
CFSM	.30	2.79	2.50	1.25	1.11	4.12	2.43	.89	1.60	1.75	.67	.23
IN.	.35	3.11	2.88	1.44	1.15	4.74	2.71	1.02	1.78	2.02	.77	.26

CAL YR 1972 TOTAL 88,945 MEAN 243 MAX 3,500 MIN 26 CFSM 1.22 IN 16.54
 WTH YR 1973 TOTAL 119,502 MEAN 327 MAX 3,500 MIN 39 CFSM 1.64 IN 22.23

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1230	8.24	2,920	03-11	1300	10.31	5,170	07-25	1500	10.42	5,300
11-14	0600	10.60	5,520	03-14	1900	7.78	2,500	07-26	0900	7.80	2,520
12-06	1130	9.97	4,760	03-17	0700	7.90	2,610	08-20	0700	8.15	2,840
03-10	0200	7.99	2,690	07-24	2100	9.64	4,370				

03275600 East Fork Whitewater River at Abington, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 5,520 cfs (156 cu m/s) Nov. 14, gage height, 10.60 ft (3.231 m); minimum daily, 39 cfs (1.10 cu m/s) Sept. 26-28.

Period of record: Maximum discharge, 13,400 cfs (379 cu m/s) July 20, 1969, gage height, 16.18 ft (4.932 m); minimum daily, 21 cfs (0.59 cu m/s) Aug. 8, Sept. 12, 1966.

WATER TEMPERATURE, Current year: Maximum temperature, 27.5°C July 9; minimum observed, 0°C Jan. 10.

Period of record: Maximum temperature, 27.5°C July 9, 1973; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good.

REVISIONS.--WSP 2108: Drainage area.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT. 31...	1130	43	7.3	200	60	69	32	90	32	31	.7	16
31...	1220	--	--	--	--	--	--	--	--	--	--	--
DEC. 11...	1220	--	--	--	--	--	--	--	--	--	--	--
11...	1245	383	8.2	300	50	26	0	80	27	9.9	.2	6
JAN. 10...	0940	--	--	--	--	--	--	--	--	--	--	--
10...	1030	118	7.6	200	100	44	44	98	31	17	.4	9
FEB. 08...	1130	237	5.8	250	110	180	170	88	30	16	.4	9
MAY 24...	1445	134	5.3	100	30	45	32	86	32	17	.4	10
AUG. 07...	1610	--	--	--	--	--	--	--	--	--	--	--
07...	1620	99	7.1	60	40	57	57	82	31	21	.5	12
SEP. 28...	1530	384	8.0	110	30	23	17	80	36	42	1.0	20
DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA, MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 31...	5.5	326	0	72	52	.6	478	466	55.5	.65	350	88
31...	--	--	--	--	--	--	--	--	--	--	--	--
DEC. 11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	2.7	270	0	54	20	.2	367	358	380	.50	310	90
JAN. 10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	3.1	332	0	65	32	.5	438	436	140	.60	370	98
FEB. 08...	2.9	308	0	59	32	.4	412	405	264	.56	340	89
MAY 24...	2.8	326	0	61	32	.6	450	404	163	.61	350	82
AUG. 07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	4.1	322	0	56	30	.6	402	402	107	.55	330	70
SEP. 28...	6.8	336	0	64	53	1.2	464	474	481	.63	350	72
DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CAC03 (MG/L)	
OCT. 31...	720	6.7	11.0	8.0	15	16	3.5	--	--	104	267	
31...	--	--	11.0	--	--	--	--	--	--	--	--	
DEC. 11...	--	--	5.0	--	--	--	--	--	--	--	--	
11...	360	9.2	5.0	-10.0	15	23	5.1	--	--	.3	221	
JAN. 10...	--	--	.0	--	--	--	--	--	--	--	--	
10...	440	8.4	.0	-10.0	5	19	4.4	--	--	2.1	272	
FEB. 08...	600	8.4	4.0	-3.0	5	20	4.6	--	--	2.0	253	
MAY 24...	680	9.2	16.5	20.5	--	6.9	1.6	--	--	.3	267	
AUG. 07...	--	--	23.0	--	--	--	--	--	--	--	--	
07...	690	7.8	23.0	31.0	5	11	2.4	1.4	.47	8.2	264	
SEP. 28...	784	7.3	22.0	30.0	6	18	4.0	--	--	27	276	

03275600 East Fork Whitewater River at Abington, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	8.5	4.0
22	---	---	---	---	---	---	---	---	---	---	9.0	4.5
23	---	---	---	---	---	---	---	---	---	---	9.0	5.0
24	---	---	---	---	---	---	---	---	---	---	11.0	6.0
25	---	---	---	---	---	---	---	---	---	---	10.5	8.5
26	---	---	---	---	---	---	---	---	---	---	9.0	8.0
27	---	---	---	---	---	---	---	---	---	---	11.0	6.5
28	---	---	---	---	---	---	---	---	---	---	9.5	7.0
29	---	---	---	---	---	---	---	---	---	---	10.5	8.5
30	---	---	---	---	---	---	---	---	---	---	11.5	9.0
31	---	---	---	---	---	---	---	---	---	---	10.5	9.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	15.5	13.5	18.0	16.0	25.0	21.0	22.0	21.0	25.0	23.0
2	10.0	8.5	15.5	14.0	19.0	17.0	26.0	22.0	21.5	19.5	25.5	23.5
3	8.5	8.0	15.0	12.0	21.0	18.5	26.5	24.0	22.0	19.5	25.0	23.0
4	8.5	7.0	13.5	10.5	20.5	19.5	25.5	22.5	23.0	19.5	24.5	23.5
5	7.5	6.5	14.0	10.5	21.0	18.0	25.0	20.5	23.5	20.5	24.0	21.5
6	12.0	6.0	13.5	12.5	19.5	18.0	26.0	22.5	23.5	21.0	21.5	20.5
7	9.5	8.0	13.5	12.5	21.0	17.0	26.5	22.5	24.0	21.5	21.0	20.5
8	11.0	8.5	15.5	13.0	22.0	17.0	26.5	23.5	25.5	22.0	21.0	19.5
9	10.5	7.0	18.0	14.0	23.5	18.5	27.5	24.5	25.0	23.5	20.5	18.5
10	7.0	5.5	17.0	15.5	24.0	19.5	26.5	25.0	24.5	23.0	19.5	18.5
11	8.5	4.5	17.0	15.0	22.5	20.0	25.5	23.5	25.0	22.0	19.0	17.5
12	7.0	5.5	15.5	15.0	22.0	20.5	25.5	22.0	24.5	23.0	18.5	17.5
13	10.0	5.0	15.0	13.5	22.0	20.0	25.5	23.0	24.5	23.0	19.5	18.5
14	11.0	6.0	13.5	11.5	22.0	18.5	25.5	23.5	23.5	21.0	19.5	18.0
15	12.5	6.5	13.0	11.0	20.5	18.5	26.5	23.0	24.0	20.5	20.0	18.5
16	11.0	10.0	13.0	10.5	22.5	19.5	25.5	23.5	23.0	20.5	19.5	18.0
17	10.5	9.0	13.0	11.0	22.0	20.5	25.5	22.0	24.0	21.0	18.5	16.5
18	11.5	9.5	13.0	10.5	24.0	20.5	25.0	22.0	24.0	21.0	18.0	15.5
19	13.5	11.0	13.5	12.0	24.0	21.5	25.5	23.0	23.5	20.0	17.0	16.0
20	17.0	13.0	14.5	13.0	23.0	22.0	25.5	24.0	22.5	20.5	18.0	16.0
21	17.0	14.0	15.5	13.5	23.5	22.5	24.5	23.0	21.5	19.0	19.0	17.0
22	16.0	14.5	16.0	15.5	25.0	22.0	25.5	23.0	21.5	18.5	20.5	19.0
23	15.0	14.0	16.5	15.5	24.5	23.5	25.0	22.5	21.0	20.0	21.5	20.0
24	16.0	12.0	16.5	16.0	24.5	23.5	25.0	21.5	23.5	19.5	21.5	20.0
25	15.5	13.0	16.0	15.5	25.5	23.0	24.5	21.5	25.0	21.5	22.0	20.5
26	14.5	10.5	17.0	15.5	25.5	21.0	24.5	21.5	25.5	23.0	22.0	21.0
27	14.0	10.5	17.0	16.5	22.0	21.0	24.5	22.0	26.0	23.5	21.5	21.0
28	12.5	8.5	16.5	16.5	23.5	21.0	24.0	21.5	25.5	23.5	22.0	21.0
29	14.0	9.5	16.5	16.0	23.5	19.5	23.5	19.5	25.0	23.5	22.5	22.0
30	14.5	12.0	16.5	15.5	24.0	19.5	23.5	20.5	24.5	22.0	22.0	21.0
31	---	---	17.0	15.5	---	---	23.0	21.5	24.5	23.0	---	---
MONTH	17.0	4.5	18.0	10.5	25.5	16.0	27.5	19.5	26.0	18.5	25.5	15.5

GREAT MIAMI RIVER BASIN

03275600 East Fork Whitewater River at Abington, Ind.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPER- ATURE (DEG C) 00010	INSTAN- TANEOUS DIS- CHARGE (CFS) 00061	SUS- PENDEO SEDI- MENT CHARGE (MG/L) 80154	SUS- PENDEO SEDI- MENT DIS- CHARGE (T/DAY) 80155
OCT. 31...	2	1220	11.0	43	7	82
DEC. 11...	2	1220	5.0	383	109	113
JAN. 10...	2	0940	0.0	118	133	42
MAY 24...	2	1445	16.5	237	37	24
AUG. 07...	2	1610	23.0	98	14	3.7
SEPT. 28...	2	1530	22.0	38	59	6.1

03276000 East Fork Whitewater River at Brookville, Ind.

LOCATION (revised).—Lat 39°26'02", long 85°00'12", in NE 1/4 NE 1/4 sec.20, T.9 N., R.2 W., Franklin County, on right bank 100 ft (30 m) upstream from bridge on State Highway 101, at Brookville, 0.4 mile (0.6 km) downstream from Brookville Lake, and 1.8 miles (2.9 km) upstream from mouth.

DRAINAGE AREA.—380 sq mi (984 sq km).

PERIOD OF RECORD.—March 1954 to current year.

GAGE.—Water-stage recorder. Datum of gage is 621.76 ft (189.512 m) above mean sea level. Prior to May 22, 1954, nonrecording gage at site 100 ft (30 m) downstream at datum 2.00 ft (0.610 m) higher. May 22, 1954, to Aug. 20, 1965, water-stage recorder at site 165 ft (50 m) downstream at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.—19 years, 384 cfs (10.87 cu m/s), 13.72 in/yr (348 mm/yr).

EXTREMES.—Current year: Maximum discharge, about 5,200 cfs (147 cu m/s) Mar. 11, gage height unknown; minimum daily, 62 cfs (1.76 cu m/s) Sept. 29.

Period of record: Maximum discharge, 36,100 cfs (1,020 cu m/s) Jan. 21, 1959; maximum gage height, 17.35 ft (5.288 m) May 24, 1968; minimum daily discharge, 17 cfs (0.48 cu m/s) Sept. 11, 1964.

REMARKS.—Records poor. Flow regulated at times by Brookville Lake, under construction.

REVISIONS (WATER YEARS).—WSP 1555: 1954(M), 1955(P). WSP 1908: 1955, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	330	410	800	550	230	1,200	500	272	270	286	109
2	89	1,610	370	550	900	240	1,000	490	242	230	254	103
3	78	1,350	340	650	900	270	840	460	238	200	227	95
4	91	600	320	1,200	700	298	1,180	410	346	360	202	93
5	167	450	300	800	550	580	1,380	380	1,260	340	180	92
6	175	330	2,280	550	500	570	1,030	360	2,620	262	165	90
7	140	800	2,800	400	440	1,200	830	340	1,700	213	155	87
8	118	1,300	1,720	320	385	1,100	900	660	724	186	148	81
9	102	800	2,140	270	342	1,000	850	550	514	171	150	83
10	94	600	1,140	250	310	3,000	940	470	406	165	186	83
11	90	580	750	180	300	5,000	960	410	350	160	150	81
12	105	450	700	160	290	4,300	950	350	342	150	370	77
13	97	1,000	1,500	160	290	2,280	940	314	360	138	424	72
14	89	3,030	1,000	180	310	1,210	830	302	302	148	278	72
15	84	3,120	800	180	600	3,400	690	294	270	216	298	72
16	82	1,000	550	170	484	2,040	650	282	322	230	216	72
17	78	700	480	180	424	3,020	1,200	270	360	165	168	71
18	76	550	450	234	380	3,220	1,600	254	302	140	145	70
19	74	700	500	286	350	1,880	1,700	330	326	125	130	68
20	73	1,000	1,300	266	330	1,100	1,600	450	580	135	724	70
21	70	800	1,050	250	318	900	1,100	306	370	3,200	484	70
22	70	600	900	520	298	740	900	258	258	1,460	238	67
23	73	500	800	900	280	660	1,500	246	200	520	177	70
24	72	430	660	484	250	600	1,300	234	180	968	153	70
25	73	400	600	425	240	900	1,000	412	165	3,300	158	71
26	70	500	560	400	250	2,900	800	286	200	3,720	133	67
27	70	540	480	500	240	2,500	680	345	1,950	2,180	115	67
28	74	580	420	700	230	1,670	620	340	1,000	740	120	63
29	83	500	380	800	-----	1,110	560	332	500	430	118	62
30	79	450	420	550	-----	1,320	520	315	350	346	118	63
31	81	-----	1,100	450	-----	1,120	-----	300	-----	306	135	-----
TOTAL	2,830	25,600	27,220	13,765	11,441	50,358	30,250	11,250	17,009	21,174	6,805	2,311
MEAN	91.3	853	878	444	409	1,624	1,008	363	567	683	220	77.0
MAX	175	3,120	2,800	1,200	900	5,000	1,700	660	2,620	3,720	724	109
MIN	70	330	300	160	230	230	520	234	165	125	115	62
CFSM	.24	2.24	2.31	1.17	1.08	4.27	2.65	.96	1.49	1.80	.58	.20
IN.	.28	2.51	2.66	1.35	1.12	4.93	2.96	1.10	1.67	2.07	.67	.23

CAL YR 1972 TOTAL 155,238 MEAN 424 MAX 3,650 MIN 34 CFSM 1.12 IN 15.20
WTR YR 1973 TOTAL 220,013 MEAN 603 MAX 5,000 MIN 62 CFSM 1.59 IN 21.54

PEAK DISCHARGE (BASE, 4,500 CFS).—Mar. 11 (time and gage height unknown) about 5,200 cfs.

NOTE.—No gage-height record Dec. 11 to Jan. 17, Mar. 5-12, Apr. 1 to May 12.

GREAT MIAMI RIVER BASIN

03276500 Whitewater River at Brookville, Ind.

LOCATION.--Lat 39°24'24", long 85°00'46", in NE 1/4 NW 1/4 sec.32, T.9 N., R.2 W., Franklin County, on right bank at downstream side of highway bridge, 0.3 mile (0.5 km) downstream from East Fork Whitewater River, and 1.1 miles (1.8 km) south of Brookville.

DRAINAGE AREA.--1,224 sq mi (3,170 sq km).

PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), and July 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft (181.572 m) above mean sea level. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft (0.457 m) higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years (1915-17, 1923 to current year), 1,261 cfs (35.71 cu m/s), 13.99 in/yr (355 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,500 cfs (496 cu m/s) Mar. 11, gage height, 11.95 ft (3.642 m); minimum daily, 245 cfs (6.94 cu m/s) Sept. 30.

Period of record: Maximum discharge, 81,800 cfs (2,317 cu m/s) Jan. 21, 1959, gage height, 27.78 ft (8.467 m), from rating curve extended above 45,000 cfs (1,270 cu m/s) on basis of contracted-opening measurement of peak flow; minimum daily, 60 cfs (1.70 cu m/s) July 27, 1934.

Flood of Mar. 25, 1913, reached a stage of 39.0 ft (11.9 m), present datum, from floodmarks (discharge not determined).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1915-17, 1929, 1930(M), 1933(M), 1934, 1935(m), 1936. WSP 1505: 1916(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	774	2,050	1,410	2,850	1,950	825	3,640	1,690	840	1,250	974	371
2	573	4,450	1,260	2,050	3,120	840	3,160	1,670	760	1,030	878	349
3	450	4,910	1,180	1,910	3,100	902	2,710	1,610	825	934	795	335
4	435	2,310	1,120	3,910	2,450	958	3,250	1,450	1,020	1,850	718	327
5	690	1,570	1,100	3,020	2,040	2,080	4,040	1,330	3,700	1,670	655	315
6	732	1,200	7,830	2,150	1,800	2,030	3,280	1,230	5,320	1,150	599	319
7	573	1,630	7,180	1,700	1,600	3,940	2,680	1,190	4,790	870	561	315
8	475	4,450	6,910	1,400	1,550	3,620	3,030	2,330	2,540	732	525	307
9	416	3,030	6,660	1,100	1,360	3,250	2,680	2,070	1,870	662	520	307
10	367	2,050	4,110	1,000	1,200	9,400	2,810	1,600	1,470	739	592	311
11	349	1,900	2,830	930	1,110	14,300	2,890	1,410	1,220	620	515	303
12	367	1,570	2,350	900	1,070	11,800	2,820	1,240	1,100	555	803	295
13	362	2,900	5,910	960	1,070	5,760	2,780	1,120	1,090	505	1,350	288
14	344	12,100	3,920	958	1,130	5,050	2,500	1,060	942	500	774	288
15	323	8,910	2,720	966	2,010	8,210	2,200	1,010	863	676	781	288
16	315	3,890	2,160	902	1,910	4,940	2,050	966	1,140	825	662	285
17	299	2,710	1,710	902	1,350	8,300	3,270	926	1,990	573	549	278
18	292	2,140	1,710	934	1,310	7,290	5,270	878	1,280	490	490	274
19	285	2,290	1,810	1,010	1,230	5,320	5,100	966	1,110	445	450	271
20	274	3,860	4,490	934	1,170	3,910	5,470	1,710	2,720	430	1,420	267
21	264	2,720	3,580	863	1,100	3,210	3,750	1,090	1,570	10,700	1,510	274
22	257	2,180	3,090	2,110	1,010	2,640	2,950	942	1,020	5,320	833	267
23	260	1,850	2,690	2,790	998	2,330	5,800	886	840	1,980	627	271
24	257	1,610	2,350	2,070	926	2,130	5,000	848	725	4,320	543	267
25	257	1,500	2,160	1,570	894	2,480	3,310	1,160	676	7,670	537	267
26	254	1,720	2,030	1,410	894	7,650	2,780	1,320	966	6,570	485	260
27	254	1,890	1,860	1,660	878	6,840	2,370	1,320	8,070	4,030	445	257
28	260	1,830	1,680	2,050	840	4,260	2,160	1,330	4,420	2,270	421	251
29	274	1,670	1,520	2,760	-----	3,770	1,900	1,290	2,310	1,560	403	248
30	271	1,500	1,470	2,020	-----	4,320	1,740	1,150	1,650	1,250	385	245
31	278	-----	2,950	1,710	-----	3,460	-----	966	-----	1,070	445	-----
TOTAL	11,581	88,390	93,750	51,499	41,070	145,815	97,390	39,758	58,837	63,246	21,245	8,700
MEAN	374	2,946	3,024	1,661	1,467	4,704	3,246	1,283	1,961	2,040	685	290
MAX	774	12,100	7,830	3,910	3,120	14,300	5,800	2,330	8,070	10,700	1,510	371
MIN	254	1,200	1,100	863	840	825	1,740	848	676	430	385	245
CFSM	.31	2.41	2.47	1.36	1.20	3.84	2.65	1.05	1.60	1.67	.56	.24
IN.	.35	2.69	2.85	1.57	1.25	4.43	2.96	1.21	1.79	1.92	.65	.26

CAL YR 1972 TOTAL 500,865 MEAN 1,368 MAX 13,100 MIN 140 CFSM 1.12 IN 15.22
WTR YR 1973 TOTAL 721,281 MEAN 1,976 MAX 14,300 MIN 245 CFSM 1.61 IN 21.92

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0600	9.92	13,200	03-11	1400	11.95	17,500
12-08	2000	9.27	12,000	07-21	2000	10.64	14,500

03276700 South Hogan Creek near Dillsboro, Ind.
(Hydrologic bench-mark station)

LOCATION.—Lat 39°01'47", long 85°02'17", in SW 1/4 NW 1/4 sec.7, T.4 N., R.2 W., Dearborn County, on left downstream abutment of bridge on county road at Dillsboro Station, 1.2 miles (1.9 km) northeast of Dillsboro, and 1.5 miles (2.4 km) downstream from Whitaker Creek.

DRAINAGE AREA.—38.1 sq mi (98.7 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: July 1961 to current year. Occasional low-flow measurements, water year 1960.

CHEMICAL ANALYSES: October 1968 to current year.

SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 571.00 ft (174.041 m) above mean sea level.

AVERAGE DISCHARGE.—12 years, 38.9 cfs (1.10 cu m/s), 13.86 in/yr (352 mm/yr).

EXTREMES.—Current year: Maximum discharge, 5,320 cfs (151 cu m/s) June 27, gage height, 9.07 ft (2.765 m); minimum daily, 0.01 cfs (0.0003 cu m/s) Sept. 6-8.

Period of record: Maximum discharge, 13,000 cfs (368 cu m/s) Apr. 29, 1970, gage height, 12.7 ft (3.87 m), from floodmarks, no flow at times most years.

Flood of Jan. 21, 1959, reached a stage of 14.00 ft (4.267 m), discharge, 16,300 cfs (462 cu m/s), on basis of contracted-opening measurement.

REMARKS.—Records fair.

REVISIONS.—WRD Ind. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	459	51	59	109	17	116	26	30	17	10	.10
2	4.0	129	54	33	122	18	72	26	22	13	7.6	.08
3	2.6	49	42	160	76	30	60	20	34	172	6.1	.06
4	57	25	35	233	50	55	215	18	22	437	4.7	.03
5	91	16	35	54	37	400	110	15	24	99	4.0	.02
6	15	12	216	36	32	105	60	14	40	32	3.1	.01
7	6.6	283	69	30	29	177	57	62	33	19	2.8	.01
8	4.0	182	942	22	27	90	175	116	18	12	2.3	.01
9	3.2	44	316	20	22	55	111	34	12	8.9	2.3	.20
10	2.5	34	120	17	18	55	96	32	9.3	14	2.8	.52
11	2.3	41	58	14	17	751	80	28	7.1	18	2.9	.87
12	3.8	30	50	13	15	121	64	19	6.6	7.1	2.2	.52
13	3.4	412	191	12	15	60	47	15	6.1	5.1	1.5	.32
14	2.3	452	89	11	78	266	39	13	5.1	4.0	2.2	.32
15	2.0	64	47	10	162	298	32	11	4.5	4.0	2.6	.20
16	2.5	41	39	9.8	70	258	32	10	7.9	3.8	1.9	.26
17	2.2	28	35	11	50	484	176	9.3	61	3.1	1.3	.26
18	2.2	21	30	12	40	170	606	8.6	19	2.3	1.0	.20
19	2.2	199	91	15	30	98	255	31	8.9	1.5	.74	.12
20	2.0	175	340	15	26	216	205	21	11	1.4	4.3	.08
21	2.0	57	96	29	23	189	79	13	9.6	698	2.5	.06
22	2.2	36	61	208	19	75	54	12	5.4	166	1.4	.06
23	2.5	27	45	146	15	53	363	12	4.3	41	.74	.26
24	2.3	22	35	53	14	46	98	11	3.8	910	.52	.26
25	2.9	23	30	30	14	252	62	93	49	342	.42	.15
26	2.8	49	30	24	17	306	52	70	7.6	102	.32	.12
27	2.8	73	27	94	17	96	59	444	1,190	120	.26	.12
28	3.8	48	24	129	16	58	47	119	144	33	.15	.10
29	4.2	49	23	150	-----	344	35	79	46	18	.12	1.4
30	4.2	47	23	48	-----	226	29	61	27	13	.10	5.9
31	6.5	-----	141	39	-----	148	-----	47	-----	11	.10	-----
TOTAL	254.4	3,127	3,385	1,736.8	1,160	5,517	3,486	1,489.9	1,870.2	3,328.2	72.97	12.62
MEAN	8.21	104	109	56.0	41.4	178	116	48.1	62.3	107	2.35	.42
MAX	91	459	942	233	162	751	606	444	1,190	910	10	5.9
MIN	2.0	12	23	9.8	14	17	29	8.6	3.8	1.4	.10	.01
CFSM	.22	2.73	2.86	1.47	1.09	4.67	3.04	1.26	1.64	2.81	.06	.01
IN.	.25	3.05	3.31	1.70	1.13	5.39	3.40	1.45	1.83	3.25	.07	.01

CAL YR 1972 TOTAL 19,436.37 MEAN 53.1 MAX 1,290 MIN 0 CFSM 1.39 IN 18.98
WTR YR 1973 TOTAL 25,440.09 MEAN 69.7 MAX 1,190 MIN .01 CFSM 1.83 IN 24.84

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
06-27	1245	9.07	5,320	07-24	1715	6.94	2,740
07-21	1430	7.91	3,780				

HOGAN CREEK BASIN

03276700 South Hogan Creek near Dillsboro, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT. 12...	1030	2.9	5.3	--	--	74	11	13	.4	11	5.8	188
NOV. 02...	1530	--	--	--	--	--	--	--	--	--	--	--
17...	0800	15	8.6	160	23	70	12	9.2	.3	8	3.2	198
DEC. 14...	1100	108	7.0	100	8	62	6.8	6.4	.2	7	2.8	162
JAN. 18...	0845	44	3.7	70	13	88	9.1	10	.3	8	2.3	230
FEB. 22...	1125	21	3.5	70	28	75	16	10	.3	8	1.8	228
MAR. 22...	0900	1710	7.6	90	10	58	10	6.1	.2	7	1.7	174
27...	1520	--	--	--	--	--	--	--	--	--	--	--
APR. 19...	1145	333	6.5	80	0	44	7.8	5.4	.2	8	2.2	140
MAY 23...	1045	13	12	80	48	64	13	13	.4	12	2.8	196
JUNE 21...	1145	8.9	6.7	160	54	61	12	9.1	.3	9	3.7	196
JULY 25...	1115	164	6.5	120	25	48	7.4	4.5	.2	6	3.7	144
AUG. 22...	0900	1.8	5.1	100	46	62	14	10	.3	9	3.9	181
SEP. 19...	1130	.10	5.0	190	89	71	14	13	.4	11	3.8	211

DATE	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT. 12...	0	81	20	.3	307	303	2.40	.42	230	78	500	8.1
NOV. 02...	--	--	--	--	--	--	--	--	--	--	--	--
17...	0	54	14	.2	265	275	10.7	.36	220	60	475	7.4
DEC. 14...	0	43	10	.4	226	225	65.9	.31	180	50	395	7.2
JAN. 18...	0	68	14	.2	308	311	36.6	.42	260	68	500	7.2
FEB. 22...	0	67	14	.2	290	302	16.4	.39	250	66	540	6.9
MAR. 22...	0	43	10	.3	226	226	1040	.31	180	43	410	7.7
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 19...	0	30	9.0	.2	202	174	182	.27	140	28	310	8.0
MAY 23...	0	52	19	.2	284	272	9.97	.39	210	52	465	7.9
JUNE 21...	0	43	13	.3	264	247	6.34	.36	200	41	425	8.0
JULY 25...	0	33	11	.2	200	188	88.6	.27	150	30	320	7.2
AUG. 22...	0	63	10	.2	246	258	1.20	.33	210	62	450	7.2
SEP. 19...	0	64	17	.2	332	292	.09	.45	237	64	550	8.1

HOGAN CREEK BASIN

03276700 South Hogan Creek near Dillsboro, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
NOV. 02...	1530	16.0	157	60	25
MAR. 27...	1520	13.0	72	35	6.9

03277000 Laughery Creek near Farmers Retreat, Ind.

LOCATION.—Lat 38°57'08", long 85°04'15", in NW 1/4 SE 1/4 sec.2, T.4 N., R.3 W., Ohio County, on right bank 2.4 miles (3.9 km) southeast of Farmers Retreat, and 3.8 miles (6.1 km) downstream from Bear Creek.

DRAINAGE AREA.—248 sq mi (642 sq km).

PERIOD OF RECORD.—October 1940 to September 1973 (discontinued as a continuous-record station; converted to a crest-stage and low-flow partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 528.54 ft (161.100 m) above mean sea level (levels by Indiana Department of Natural Resources). Prior to Apr. 16, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—33 years, 272 cfs (7.703 cu m/s), 14.89 in/yr (378 mm/yr).

EXTREMES.—Current year: Maximum discharge, 9,330 cfs (264 cu m/s) June 27, gage height, 11.08 ft (3.377 m); minimum daily, 1.9 cfs (0.054 cu m/s) Sept. 22, 27, 28.

Period of record: Maximum discharge, 47,800 cfs (1,350 cu m/s) Jan. 21, 1959, gage height, 21.13 ft (6.440 m), from rating curve extended above 14,000 cfs (396 cu m/s) on basis of slope-area measurement of peak flow; no flow at times in most years.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 973: 1942(M). WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	1,260	290	657	378	111	749	195	232	209	78	4.7
2	29	1,420	300	336	795	105	585	184	171	151	59	4.4
3	46	902	234	519	642	131	528	177	225	370	47	4.1
4	142	344	220	1,330	443	169	827	157	303	894	39	3.9
5	90	179	218	806	334	1,190	1,610	133	216	932	33	3.6
6	194	125	856	396	266	988	627	113	474	381	27	4.7
7	131	603	2,400	261	223	697	443	101	585	200	24	3.6
8	65	1,370	2,960	202	223	1,660	787	303	370	131	21	2.3
9	37	693	4,380	161	202	543	848	1,010	202	94	18	30
10	26	318	1,240	143	179	915	573	394	141	78	27	9.8
11	20	248	624	120	153	3,580	591	295	103	81	19	4.7
12	21	258	388	105	137	2,930	522	237	111	59	23	3.3
13	30	1,080	919	94	125	645	414	169	107	46	23	2.6
14	21	3,840	997	82	230	546	336	133	129	59	27	2.8
15	15	1,630	448	76	567	3,070	239	109	105	59	24	3.3
16	11	453	318	72	738	1,350	230	94	121	36	19	3.3
17	9.3	295	246	78	362	3,180	1,030	83	453	27	15	3.1
18	7.8	218	230	83	264	1,920	3,410	73	1,290	22	12	3.1
19	6.9	446	261	109	220	894	3,290	67	326	18	9.8	2.3
20	6.5	1,190	1,750	117	191	783	2,190	81	663	17	12	2.1
21	5.5	761	1,370	137	181	1,190	1,050	105	783	936	10	2.1
22	4.7	381	603	558	165	633	522	103	326	2,760	8.3	1.9
23	6.6	269	422	1,110	151	420	1,160	86	184	549	7.9	8.8
24	13	211	321	594	135	331	1,510	71	129	1,980	22	7.9
25	15	179	258	349	123	697	600	227	624	2,430	18	3.3
26	18	209	232	258	119	2,510	465	313	420	686	14	2.3
27	15	420	216	316	123	1,080	414	714	3,180	489	11	1.9
28	15	422	204	522	117	507	334	630	2,830	261	8.8	1.9
29	16	349	177	860	-----	609	292	573	639	161	7.1	2.1
30	22	297	167	537	-----	2,150	227	451	326	111	6.0	5.0
31	27	-----	474	329	-----	932	-----	342	-----	88	5.3	-----
TOTAL	1,116.3	20,370	23,723	11,317	7,786	36,466	26,403	7,723	15,768	14,315	675.2	138.9
MEAN	36.0	679	765	365	278	1,176	880	249	526	462	21.8	4.63
MAX	194	3,840	4,380	1,330	795	3,580	3,410	1,010	3,180	2,760	78	30
MIN	4.7	125	167	72	117	105	227	67	103	17	5.3	1.9
CFSM	.15	2.74	3.08	1.47	1.12	4.74	3.55	1.00	2.12	1.86	.09	.02
IN.	.17	3.06	3.56	1.70	1.17	5.47	3.96	1.16	2.37	2.15	.10	.02

CAL YR 1972 TOTAL 125,893.52 MEAN 344 MAX 5,100 MIN .16 CFSM 1.39 IN 18.88
WTR YR 1973 TOTAL 165,801.40 MEAN 454 MAX 4,380 MIN 1.9 CFSM 1.83 IN 24.87

PEAK DISCHARGE (BASE, 6,000 CFS).—June 27 (1600) 9,330 cfs (11.08 ft); July 24 (1900) 7,650 cfs (10.25 ft).

INDIAN-KENTUCK CREEK BASIN

03291780 Indian-Kentuck Creek near Canaan, Ind.

LOCATION.--Lat 38°52'41", long 85°15'26", in SW 1/4 NW 1/4 sec.13, T.5 N., R.11 E., Jefferson County, on downstream end of left pier of bridge on State Highway 62, 1,500 ft (457 m) upstream from Wilson Fork, and 2.0 miles (3.2 km) northeast of Canaan.

DRAINAGE AREA.--27.5 sq mi (71.2 sq km).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 590 ft (180 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,090 cfs (30.9 cu m/s) June 27, gage height, 6.68 ft (2.036 m), from rating curve extended above 600 cfs (17.0 cu m/s); minimum daily, 0.01 cfs (0.0003 cu m/s) Sept. 7, 8.
Period of record: Maximum discharge, 3,210 cfs (90.9 cu m/s) Feb. 22, 1971, gage height, 11.02 ft (3.359 m), from rating curve extended above 600 cfs (17.0 cu m/s); no flow for many days in 1970, 1972.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	270	54	33	68	12	75	21	18	20	8.4	.04
2	2.8	97	57	25	78	12	67	22	15	10	6.2	.03
3	1.9	44	43	81	63	18	57	19	39	7.6	4.7	.02
4	34	24	40	132	45	19	146	17	16	14	3.4	.02
5	16	17	37	58	37	148	86	15	50	13	2.8	.02
6	7.2	13	130	39	29	63	59	14	126	6.5	2.1	.02
7	4.4	153	57	28	25	108	51	14	57	4.4	1.6	.01
8	3.0	126	428	23	29	67	160	67	29	3.2	1.3	.01
9	2.2	47	198	18	23	46	78	29	21	2.6	1.2	15
10	1.8	32	97	16	20	39	66	24	15	47	2.2	2.6
11	1.6	29	55	14	18	318	57	21	12	16	1.5	.70
12	2.1	22	45	12	16	101	48	17	22	6.8	1.2	.40
13	2.8	198	116	10	15	60	37	13	19	4.4	1.2	.30
14	2.1	235	55	9.0	53	103	31	12	11	8.4	1.6	.35
15	1.6	67	45	8.5	108	180	27	10	8.8	9.2	1.9	.26
16	1.6	41	28	8.0	55	165	28	9.6	13	5.3	1.1	.18
17	1.5	29	26	10	43	278	175	9.2	96	3.4	.80	.15
18	1.3	22	37	12	34	132	333	7.6	23	2.2	.55	.12
19	1.2	103	54	15	29	89	203	8.0	14	1.9	.45	.10
20	1.0	105	205	11	24	118	170	9.6	12	1.6	.35	.08
21	1.0	50	78	16	22	116	82	6.8	9.2	320	.26	.10
22	1.0	36	53	124	19	66	59	6.2	6.5	114	.22	.10
23	1.1	27	39	87	18	48	122	8.0	4.7	36	.18	5.0
24	1.0	22	31	45	15	39	82	6.5	3.6	360	.18	1.8
25	1.1	21	26	33	14	118	57	77	15	124	.15	.70
26	1.0	34	25	28	14	170	43	47	5.0	48	.12	.45
27	1.1	39	22	42	13	70	38	106	270	27	.10	.35
28	1.2	42	19	57	12	49	30	60	67	18	.10	.30
29	1.6	53	18	63	-----	89	25	42	24	12	.08	.26
30	1.8	48	18	43	-----	97	22	32	15	9.6	.06	.22
31	11	-----	63	34	-----	96	-----	24	-----	8.8	.04	-----
TOTAL	118.6	2,046	2,199	1,134.5	939	3,034	2,514	774.5	1,036.8	1,264.9	46.04	29.69
MEAN	3.83	68.2	70.9	36.6	33.5	97.9	83.8	25.0	34.6	40.8	1.49	.99
MAX	34	270	428	132	108	318	333	106	270	360	8.4	15
MIN	1.0	13	18	8.0	12	12	22	6.2	3.6	1.6	.04	.01
CFSM	.14	2.48	2.58	1.33	1.22	3.56	3.05	.91	1.26	1.48	.05	.04
IN.	.16	2.77	2.97	1.53	1.27	4.10	3.40	1.05	1.40	1.71	.06	.04

CAL YR 1972 TOTAL 12,275.88 MEAN 33.5 MAX 469 MIN 0 CFSM 1.22 IN 16.61
WTR YR 1973 TOTAL 15,137.03 MEAN 41.5 MAX 428 MIN .01 CFSM 1.51 IN 20.48

PEAK DISCHARGE (BASE 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-01	0030	5.32	616	03-14	2100	4.66	440	06-17	0330	5.22	586
11-13	1845	5.17	571	03-25	2245	4.86	490	06-27	1430	6.68	1,090
12-08	1400	5.78	763	04-18	0900	5.55	685	07-10	1030	4.81	478
01-03	2115	4.58	420	05-25	1945	4.92	505	07-21	1615	6.59	1,060
03-11	0500	5.21	583	06-05	2145	5.80	770	07-24	1245	6.37	970

03293800 Deam Lake near Sellersburg, Ind.

LOCATION.—Lat 38°27'50", long 85°51'30", in NE 1/4 NW 1/4 sec.4, T.1 S., R.6 E., Clark County, in intake tower of reservoir on Big Run, 1 mile (1.6 km) above mouth, and 7.2 miles (11.6 km) northwest of Sellersburg.

DRAINAGE AREA.—3.74 sq mi (9.68 sq km).

PERIOD OF RECORD.—January 1965 to current year.

GAGE.—Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level (levels by Indiana Department of Natural Resources).

EXTREMES.—Current year: Maximum contents, 3,369 acre-ft (4.15 cu hm) Apr. 23, 24, gage height, 37.54 ft (11.442 m); minimum, 1,693 acre-ft (2.09 cu hm) Sept. 30, gage height, 28.23 ft (8.604 m).

Period of record: Maximum contents, 3,534 acre-ft (4.36 cu hm) in February 1971, Apr. 16, 1972, gage height, 38.28 ft (11.668 m); minimum contents since reaching minimum pool elevation of 535.00 ft (163.068 m), 944 acre-ft (1.16 cu hm) Oct. 30, 31, 1969, gage height, 21.82 ft (6.651 m).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by a sluice gate into 42-inch (1,067 mm) diameter pipe. Minimum design capacity is 2,850 acre-ft (3.51 cu hm), elevation, 535 ft (163.1 m). Capacity at uncontrolled spillway elevation, 551.1 ft (169.19 m) is 8,440 acre-ft (10.4 cu hm). Reservoir is used for flood control and recreation. Reservoir put in operation on Jan. 14, 1965.

COOPERATION.—Capacity tables furnished by Indiana Department of Natural Resources.

Month-and elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	35.20	2,890	-
Oct. 31.....	35.12	2,874	-16
Nov. 30.....	35.71	2,992	+118
Dec. 31.....	35.86	3,022	+30
Calendar year 1972.....	-	-	+102
Jan. 31.....	35.85	3,020	-2
Feb. 28.....	35.62	2,974	-46
Mar. 31.....	36.74	3,198	+224
Apr. 30.....	36.63	3,176	-22
May 31.....	36.21	3,092	-84
June 30.....	36.19	3,088	-4
July 31.....	36.32	3,114	+26
Aug. 31.....	35.25	2,900	-214
Sept. 30.....	28.23	1,693	-1,207
Water year 1973.....	-	-	-1,197

SILVER CREEK BASIN

03294000 Silver Creek near Sellersburg, Ind.

LOCATION.--Lat 38°22'15", long 85°43'35", in SW 1/4 SW 1/4 lot 68, Clark Military Grant, Clark County, on upstream side of Straws Mill bridge on Watson Road, 0.3 mile (0.5 km) downstream from Pleasant Run, 2.4 miles (3.9 km) southeast of Sellersburg, and 11.9 miles (19.1 km) upstream from mouth.

DRAINAGE AREA.--189 sq mi (490 sq km).

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 430 ft (131 m), from topographic map.

AVERAGE DISCHARGE.--19 years, 209 cfs (5.92 cu m/s), 15.02 in/yr (382 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,680 cfs (189 cu m/s) July 22, gage height, 23.08 ft (7.035 m); minimum daily, 4.0 cfs (0.11 cu m/s) Oct. 20.

Period of record: Maximum discharge, 19,600 cfs (555 cu m/s) Jan. 22, 1959, gage height, 30.89 ft (9.415 m), from flood-marks, from rating curve extended above 6,300 cfs (178 cu m/s) on basis of contracted-opening measurements of peak flow, at site 5.2 miles (8.4 km) upstream, drainage area, 164 sq mi (425 sq km), adjusted to gage site; no flow at times in most years.

REMARKS.--Records good. Some regulation by Deam Lake (See sta 03293800).

REVISIONS (WATER YEARS).--WSP 1705: 1955-58. WRD Ind. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	61	344	208	361	78	548	176	142	129	184	6.2
2	14	153	251	157	692	95	372	218	115	108	104	4.4
3	8.2	156	205	133	398	104	302	187	822	88	79	4.2
4	24	79	192	945	251	103	734	146	356	91	68	5.0
5	108	53	195	508	218	839	665	125	254	115	58	9.6
6	51	40	391	296	189	562	515	108	240	101	46	18
7	27	124	385	170	166	1,160	580	104	200	61	35	7.9
8	18	450	2,190	120	186	1,200	1,880	129	145	49	27	5.0
9	12	156	3,990	100	150	602	868	139	103	37	26	4.4
10	8.2	105	1,130	90	125	492	560	186	85	31	68	5.7
11	7.6	95	515	85	115	1,370	410	237	71	290	40	6.0
12	6.8	81	545	85	115	990	326	135	64	121	23	4.8
13	7.9	340	795	85	115	490	258	104	57	76	42	5.5
14	8.2	1,640	472	88	266	380	221	83	57	56	41	16
15	6.5	376	352	107	752	1,210	195	71	46	50	35	37
16	5.2	200	250	111	321	965	190	60	136	42	24	30
17	4.6	146	180	112	155	2,300	320	58	93	31	18	32
18	5.0	118	153	153	150	1,290	1,200	50	79	24	16	49
19	4.8	381	365	219	148	622	1,790	45	58	22	16	51
20	4.0	885	1,200	162	147	759	1,740	64	160	19	12	48
21	5.0	310	525	394	135	1,200	780	60	122	101	13	49
22	5.2	208	338	1,030	122	552	478	48	76	1,280	10	42
23	5.7	171	244	578	119	378	1,750	82	57	4,380	10	41
24	5.7	147	202	356	107	306	2,930	91	42	1,000	9.2	44
25	5.5	143	176	226	93	609	875	65	32	478	14	44
26	6.0	176	147	176	90	1,500	530	72	24	264	18	43
27	11	184	136	274	85	635	370	775	850	212	10	46
28	8.6	376	124	328	79	378	294	990	2,250	159	8.9	43
29	9.2	729	112	442	-----	499	233	405	361	125	9.2	42
30	9.2	380	114	256	-----	825	200	268	195	90	7.9	42
31	17	-----	252	219	-----	570	-----	184	-----	153	6.2	-----
TOTAL	446.1	8,463	16,470	8,213	5,850	23,063	22,114	5,465	7,292	9,783	1,078.4	785.7
MEAN	14.4	282	531	265	209	744	737	176	243	316	34.8	26.2
MAX	108	1,640	3,990	1,030	752	2,300	2,930	990	2,250	4,380	184	51
MIN	4.0	40	112	85	79	78	190	45	24	19	6.2	4.2
CFSM	.08	1.49	2.81	1.40	1.11	3.94	3.90	.93	1.29	1.67	.18	.14
IN.	.09	1.67	3.24	1.62	1.15	4.54	4.35	1.08	1.44	1.93	.21	.15

CAL YR 1972 TOTAL 93,189.3 MEAN 255 MAX 4,040 MIN 1.0 CFSM 1.35 IN 18.34
WTR YR 1973 TOTAL 109,023.2 MEAN 299 MAX 4,380 MIN 4.0 CFSM 1.58 IN 21.46

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0400	14.28	2,600	06-28	0500	16.19	3,270
12-09	1100	19.10	4,340	07-22	1100	23.08	6,680
04-24	0400	18.00	3,900				

03302220 Buck Creek near New Middletown, Ind.

LOCATION.—Lat 38°07'13", long 86°05'16", in SE 1/4 NE 1/4 sec.32, T.4 S., R.4 E., Harrison County, at downstream end of pier of bridge on State Highway 337, 0.5 mile (0.8 km) downstream from South Fork Buck Creek, 3.6 miles (5.8 km) southwest of New Middletown, and 14.6 miles (23.5 km) upstream from mouth.

DRAINAGE AREA.—65.2 sq mi (168.9 sq km), of which 28.1 sq mi (72.8 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 500 ft (152 m) from topographic map.

EXTREMES.—Current year: Maximum discharge, 2,340 cfs (66.3 cu m/s) May 10, gage height, 7.80 ft (2.377 m); minimum daily, 3.6 cfs (0.10 cu m/s) Sept. 4, 18, 19.

Period of record: Maximum discharge, 12,700 cfs (360 cu m/s) Apr. 2, 1970, gage height, 14.40 ft (4.389 m); minimum daily, 0.90 cfs (0.03 cu m/s) Sept. 13, 1972.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WRD Ind. 1972: 1971(P)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	64	125	71	109	28	175	103	80	41	42	4.9
2	14	135	99	64	137	29	144	107	104	33	25	4.0
3	9.6	83	82	108	109	36	121	90	110	27	19	4.0
4	43	46	170	271	92	38	279	81	65	29	16	3.6
5	68	31	137	171	87	209	224	72	84	34	14	4.0
6	27	23	147	121	72	160	163	67	224	22	13	5.8
7	18	121	120	94	62	253	150	62	196	18	12	5.8
8	12	165	405	78	86	241	405	67	124	16	11	4.5
9	9.1	87	640	65	86	163	285	56	94	15	12	4.0
10	7.2	65	330	55	79	124	181	600	81	154	17	4.0
11	5.8	49	238	47	70	215	144	320	72	71	12	4.5
12	5.4	39	239	40	64	187	138	171	61	35	10	4.0
13	4.9	175	380	35	59	138	109	112	51	26	9.6	5.8
14	4.9	249	218	32	113	150	96	91	45	23	10	13
15	4.5	125	168	30	184	210	91	80	35	28	13	8.1
16	4.5	88	125	28	127	208	84	68	33	21	9.1	5.4
17	4.9	68	104	27	99	362	124	62	58	17	7.6	4.0
18	4.9	51	91	27	88	318	245	57	37	15	7.2	3.6
19	4.5	177	109	34	73	230	510	53	30	14	6.7	3.6
20	4.5	221	257	28	65	188	405	49	36	13	6.7	4.0
21	6.7	130	184	32	56	205	245	46	71	175	5.8	4.5
22	8.1	100	135	120	50	156	184	45	34	458	5.4	4.5
23	9.1	80	105	105	48	126	230	129	27	127	5.4	4.9
24	9.1	68	91	87	41	108	455	62	23	72	7.2	5.8
25	8.6	67	75	72	37	135	355	76	20	50	10	5.4
26	8.6	78	69	67	35	265	227	108	19	59	7.2	4.9
27	9.1	87	59	109	32	200	203	405	221	54	5.8	4.9
28	13	176	55	131	29	151	161	285	107	33	5.4	4.9
29	11	210	48	135	-----	143	133	170	64	27	4.9	7.2
30	8.6	157	48	112	-----	150	116	120	47	23	4.9	9.6
31	16	-----	80	96	-----	179	-----	95	-----	48	4.9	-----
TOTAL	392.6	3,215	5,133	2,492	2,189	5,305	6,382	3,909	2,253	1,778	339.8	157.2
MEAN	12.7	107	166	80.4	78.2	171	213	126	75.1	57.4	11.0	5.24
MAX	68	249	640	271	184	362	510	600	224	458	42	13
MIN	4.5	23	48	27	29	28	84	45	19	13	4.9	3.6
CFSM	.19	1.64	2.55	1.23	1.20	2.62	3.27	1.93	1.15	.88	.17	.08
IN.	.22	1.83	2.93	1.42	1.25	3.03	3.64	2.23	1.29	1.01	.19	.09

CAL YR 1972 TOTAL 38,886.00 MEAN 106 MAX 1,970 MIN .90 CFSM 1.63 IN 22.19
WTR YR 1973 TOTAL 33,545.60 MEAN 91.9 MAX 640 MIN 3.6 CFSM 1.41 IN 19.14

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
05-10	1300	7.80	2,340	07-21	2300	7.49	2,090
06-27	1500	6.16	1,250				

03302300 Little Indian Creek near Galena, Ind.

LOCATION.--Lat 38°19'19", long 85°55'53", in NE 1/4 SW 1/4 sec.23, T.2 S., R.5 E., Floyd County, on right bank at downstream side of county road bridge, 2 miles (3 km) south of Galena, 3.6 miles (5.8 km) upstream from mouth, and 7.0 miles (11.3 km) northwest of New Albany.

DRAINAGE AREA.--16.1 sq mi (41.7 sq km).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 703.00 ft (214.274 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 22.5 cfs (0.637 cu m/s), 18.98 in/yr (482 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,500 cfs (156 cu m/s) July 21, gage height, 9.30 ft (2.835 m); minimum daily, 0.06 cfs (0.002 cu m/s) Sept. 26-28.

Period of record: Maximum discharge, 5,500 cfs (156 cu m/s) July 21, 1973, gage height, 9.30 ft (2.835 m), from rating curve extended above 3,100 cfs (87.8 cu m/s) on basis of contracted-opening measurement at 7.34 ft (2.237 m); no flow for many days in October 1969.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	10	32	21	40	7.8	42	19	9.0	15	40	.28
2	1.4	23	32	18	42	11	35	21	9.0	9.5	22	.28
3	.84	9.0	25	106	34	23	28	16	25	7.5	14	.22
4	9.0	4.9	32	89	28	23	96	14	13	12	8.6	.22
5	3.7	3.5	26	44	24	140	53	12	9.5	9.0	5.8	.35
6	2.1	2.9	49	32	21	52	40	11	14	7.5	4.4	.35
7	1.4	38	30	25	19	234	52	11	8.6	6.1	3.5	.22
8	1.0	26	610	20	29	66	153	16	6.4	5.5	2.7	.22
9	.84	13	138	17	23	43	60	11	5.5	5.2	3.7	.28
10	.66	11	61	15	20	33	45	25	4.6	108	3.3	.28
11	.50	9.0	40	13	18	175	36	17	3.9	13	2.2	.22
12	1.8	6.8	55	12	16	60	31	13	3.5	5.2	1.8	.16
13	.93	124	101	11	15	42	25	10	3.3	3.3	1.8	.42
14	.66	51	47	10	36	42	20	8.6	3.1	4.1	2.1	.84
15	.42	26	40	95	46	47	18	7.5	2.9	3.9	1.6	.35
16	.35	17	30	9.0	30	92	20	6.8	3.5	3.1	1.1	.28
17	.35	14	27	8.2	25	231	33	6.1	3.9	2.6	1.0	.22
18	.28	11	26	8.6	21	82	73	5.5	2.7	2.4	1.0	.22
19	.22	72	46	15	18	51	240	5.2	2.1	5.8	.84	.16
20	.16	54	97	11	17	54	136	4.9	1.8	5.2	.84	.10
21	.22	29	39	24	15	55	57	4.4	3.3	470	.66	.10
22	.22	23	35	53	14	40	41	4.4	1.5	535	.50	.10
23	.42	18	27	36	13	32	435	5.5	1.0	53	.50	.10
24	.50	15	23	27	11	26	124	4.6	.75	42	.50	.10
25	.28	16	19	22	11	59	61	5.2	.58	20	.93	.10
26	.22	20	18	20	10	78	44	12	.58	32	.75	.06
27	.28	19	16	32	9.5	46	40	138	288	20	.58	.06
28	1.1	45	15	36	8.6	35	32	42	33	12	.50	.06
29	.58	39	15	32	-----	40	25	25	18	7.5	.42	.10
30	.50	36	15	33	-----	41	20	18	13	5.5	.35	.93
31	3.9	-----	32	23	-----	48	-----	13	-----	59	.28	-----
TOTAL	36.93	786.1	1,798	917.8	614.1	2,008.8	2,115	512.7	495.01	1,489.9	128.25	7.38
MEAN	1.19	26.2	58.0	29.6	21.9	64.8	70.5	16.5	16.5	48.1	4.14	.25
MAX	9.0	124	610	106	46	234	435	138	288	535	40	.93
MIN	.16	2.9	15	8.2	8.6	7.8	18	4.4	.58	2.4	.28	.06
CFSM	.07	1.63	3.60	1.84	1.36	4.02	4.38	1.02	1.02	2.99	.26	.02
IN.	.09	1.82	4.15	2.12	1.42	4.64	4.89	1.18	1.14	3.44	.30	.02

CAL YR 1972 TOTAL 11,262.17 MEAN 30.8 MAX 735 MIN .05 CFSM 1.91 IN 26.02
WTR YR 1973 TOTAL 10,909.97 MEAN 29.9 MAX 610 MIN .06 CFSM 1.86 IN 25.21

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	1530	4.50	692	04-23	1330	5.86	1,690
12-08	1430	5.78	1,620	05-27	1000	4.31	585
01-03	1930	4.24	550	06-27	1245	6.36	2,140
03-07	0830	4.98	976	07-10	1030	5.35	1,260
04-19	0445	4.32	590	07-21	2100	9.30	5,500

03302500 Indian Creek near Corydon, Ind.

LOCATION.—Lat 38°16'35", long 86°06'35", in SW 1/4 SE 1/4 sec.6, T.3 S., R.4 E., Harrison County, on upstream side of bridge on State Highway 335, 0.6 mile (1.0 km) upstream from Raccoon Branch, and 4.5 miles (7.2 km) north of Corydon.

DRAINAGE AREA.—129 sq mi (334 sq km), of which 10.6 sq mi (27.4 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1943 to current year. Prior to October 1961, published as Big Indian Creek near Corydon.

GAGE.—Water-stage recorder. Datum of gage is 577.12 ft (175.906 m) above mean sea level. Prior to Dec. 9, 1948, nonrecording gage, and Dec. 9, 1948, to June 12, 1952, recorder records for stages above 6.3 ft (1.920 m) at same site and datum.

AVERAGE DISCHARGE.—30 years, 166 cfs (4.70 cu m/s), 17.47 in/yr (444 mm/yr).

EXTREMES.—Current year: Maximum discharge, 24,400 cfs (691 cu m/s) July 22, gage height, 22.31 ft (6.800 m); no flow Oct. 20–25, Sept. 4, 21–29.

Period of record: Maximum discharge, 26,700 cfs (756 cu m/s) Mar. 5, 1964, gage height, 22.64 ft (6.901 m); no flow at times during 1943–44, 1951–54, 1959, 1965, 1972–73.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1275: Drainage area. WSP 1385: 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	39	211	168	111	31	387	115	57	80	584	.07
2	6.2	160	183	124	303	30	292	133	43	53	299	.01
3	2.7	59	143	183	217	53	220	104	580	35	150	.01
4	2.1	25	124	945	160	63	608	74	247	29	80	0
5	5.0	16	115	425	131	468	540	59	226	57	49	.01
6	12	11	359	264	102	415	366	50	140	27	34	.33
7	6.2	280	268	168	80	1,270	296	45	104	18	25	1.4
8	3.8	150	2,590	119	104	805	1,120	52	64	13	19	1.3
9	2.5	90	2,310	82	94	446	660	48	46	.11	16	.33
10	1.6	46	715	60	86	320	457	98	34	476	28	.14
11	.68	35	422	45	73	1,020	334	133	26	436	15	.04
12	.20	26	359	37	66	695	268	63	21	107	11	.01
13	.07	890	745	32	59	415	196	44	30	49	11	.14
14	1.3	450	472	30	77	387	153	36	23	31	9.8	14
15	2.5	200	348	28	355	760	122	29	16	27	10	8.7
16	1.9	98	244	26	244	500	107	25	21	22	7.1	2.5
17	.96	58	145	24	140	1,750	158	24	22	15	5.0	.68
18	.26	40	138	24	120	1,010	488	21	26	11	3.8	.26
19	.04	143	143	33	110	580	1,130	19	14	7.7	2.9	.07
20	0	480	790	31	91	450	1,330	18	12	8.3	2.3	.01
21	0	211	464	26	74	604	630	18	21	1,270	1.6	0
22	0	131	317	299	60	411	401	15	16	13,900	.96	0
23	0	89	217	238	58	299	1,670	15	8.7	1,230	.56	0
24	0	63	160	155	49	226	1,580	18	6.5	492	.68	0
25	0	56	124	104	42	247	665	15	4.8	317	.68	0
26	.68	72	104	80	39	612	450	14	3.8	175	.82	0
27	.96	80	85	111	36	422	359	588	1,520	244	.82	0
28	1.1	199	74	129	33	299	257	415	1,410	98	.44	0
29	2.5	366	63	158	-----	278	185	211	244	56	.10	0
30	6.5	254	58	117	-----	488	143	126	163	36	.07	.04
31	7.7	-----	199	98	-----	408	-----	80	-----	725	.07	-----
TOTAL	86.45	4,817	12,689	4,363	3,114	15,762	15,572	2,705	5,149.8	20,056.0	1,368.70	30.85
MEAN	2.79	161	409	141	111	508	519	87.3	172	647	44.2	1.00
MAX	17	890	2,590	945	355	1,750	1,670	588	1,520	13,900	584	14
MIN	0	11	58	24	33	30	107	14	3.8	.7	.07	0
CFSM	.02	1.25	3.17	1.09	.86	3.94	4.02	.68	1.33	5.02	.34	.008
IN.	.02	1.39	3.66	1.26	.90	4.55	4.49	.78	1.49	5.78	.39	.008

CAL YR 1972 TOTAL 78,879.42 MEAN 216 MAX 5,230 MIN 0 CFSM 1.67 IN 22.75
WTR YR 1973 TOTAL 85,713.00 MEAN 235 MAX 13,900 MIN 0 CFSM 1.82 IN 24.72

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-08	2300	13.63	5,510	07-22	1000	22.31	24,400
06-28	0100	13.39	5,270				

BLUE RIVER BASIN

03302680 West Fork Blue River at Salem, Ind.

LOCATION.--Lat 38°36'19", long 86°05'40", in SW 1/4 SE 1/4 sec.17, T.2 N., R.4 E., Washington County, on left bank just downstream from bridge on State Highway 160, 0.35 mile (0.56 km) east of County Court House in Salem, 6.0 miles (9.6 km) upstream from Hoggatt Branch, and 6.8 miles (10.9 km) from mouth.

DRAINAGE AREA.--19.0 sq mi (49.2 sq km).

PERIOD OF RECORD.--July 1970 to current year. Prior to December 10, 1970, nonrecording gage at site 0.55 mile (0.88 km) downstream at datum 5.04 ft (1.536 m) lower.

GAGE.--Water-stage recorder. Datum of gage 713.00 ft (217.322 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,530 cfs (43.3 cu m/s) July 21, gage height, 8.24 ft (2.512 m); minimum daily, 0.15 cfs (0.004 cu m/s) Oct. 21, 22.

Period of record: Maximum discharge, 1,700 cfs (48.1 cu m/s) Apr. 15, 1972 (corrected), gage height, 8.61 ft (2.624 m) (corrected); minimum daily, 0.02 cfs (0.001 cu m/s) Sept. 24, 1970.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	41	25	30	47	9.0	59	14	13	5.1	12	.35
2	3.5	36	20	25	86	9.7	50	13	13	3.7	7.2	.30
3	2.3	15	17	68	65	12	41	11	18	47	5.1	.30
4	2.9	6.0	16	83	53	12	75	9.7	15	29	4.0	.25
5	5.0	3.2	14	56	44	22	60	9.0	30	9.0	3.5	.25
6	2.9	2.0	219	41	35	22	50	8.4	44	5.1	3.0	.25
7	2.0	16	81	29	29	186	54	8.4	22	3.7	2.5	.25
8	1.8	23	481	24	29	92	162	23	15	3.0	2.2	.20
9	1.3	13	204	20	21	64	90	10	12	2.5	31	.30
10	.65	9.9	111	17	19	54	64	14	9.0	36	11	.30
11	.65	7.0	68	14	18	310	51	12	7.8	5.5	3.7	.30
12	.65	5.0	65	12	17	113	45	9.0	6.0	3.2	3.0	.30
13	.65	109	118	11	16	68	35	7.8	5.1	2.5	4.3	.30
14	.50	94	72	9.7	29	135	29	6.6	4.3	2.2	3.0	2.7
15	.40	45	59	9.0	48	120	26	6.0	4.0	2.7	2.7	1.0
16	.40	31	40	8.4	36	127	33	5.5	4.0	2.2	2.0	.43
17	.40	23	30	8.4	31	254	77	4.7	4.0	1.6	1.8	.35
18	.30	18	28	9.0	25	129	320	4.3	3.5	1.3	1.5	.30
19	.30	52	48	14	22	79	239	4.3	14	1.2	1.3	.30
20	.20	69	86	9.7	20	107	168	4.0	21	1.3	1.2	.35
21	.15	44	64	17	17	96	83	3.7	4.7	449	.85	.30
22	.15	34	50	50	15	65	54	3.5	3.2	164	.70	.30
23	.30	26	39	47	15	48	64	4.7	2.7	74	.56	.56
24	.40	22	31	35	13	39	47	3.5	2.5	44	.85	.43
25	.30	24	26	26	12	50	38	3.0	2.2	30	1.6	.43
26	.30	30	24	24	12	56	29	56	2.0	21	1.0	.35
27	.30	30	21	31	10	42	24	135	105	15	.70	.30
28	.50	30	19	41	9.7	36	19	45	25	10	.43	.25
29	.50	28	17	48	-----	62	15	27	11	7.2	.43	.25
30	.50	28	19	41	-----	65	14	21	7.2	5.5	.35	.25
31	1.5	-----	44	34	-----	72	-----	16	-----	35	.43	-----
TOTAL	37.20	914.1	2,156	892.2	793.7	2,555.7	2,115	503.1	430.2	1,022.5	113.90	12.50
MEAN	1.20	30.5	69.5	28.8	28.3	82.4	70.5	16.2	14.3	33.0	3.67	.42
MAX	5.5	109	481	83	86	310	320	135	105	449	31	2.7
MIN	.15	2.0	14	8.4	9.7	9.0	14	3.0	2.0	1.2	.35	.20
CFSM	.06	1.61	3.66	1.52	1.49	4.34	3.71	.85	.75	1.74	.19	.02
IN.	.07	1.79	4.22	1.75	1.55	5.00	4.14	.99	.84	2.00	.22	.02

CAL YR 1972 TOTAL 10,117.66 MEAN 27.6 MAX 963 MIN .05 CFSM 1.45 IN 19.81
WTR YR 1973 TOTAL 11,546.10 MEAN 31.6 MAX 481 MIN .15 CFSM 1.66 IN 22.61

PEAK DISCHARGE (BASE, 300 CPS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	1530	4.89	408	03-17	0630	4.66	375
12-06	0515	6.26	803	04-18	0600	7.04	1,050
12-08	1630	6.38	839	05-26	2130	5.39	548
03-07	0815	5.72	647	06-27	1300	5.73	649
03-11	0215	5.60	613	07-03	2100	4.81	412
03-14	1745	4.90	435	07-21	0930	8.24	1,530

03302800 Blue River at Fredericksburg, Ind.

LOCATION.--Lat 38°26'02", long 86°11'31", in NE 1/4 NW 1/4 sec.16, T.1 S., R.3 E., Washington County, attached to downstream side of bridge on U.S. Highway 150 at Fredericksburg and 0.5 mile (0.8 km) downstream from South Fork Blue River.

DRAINAGE AREA.--283 sq mi (733 sq km), of which 76.9 sq mi (199.2 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.00 ft (179.832 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 295 cfs (8.354 cu m/s), 14.16 in/yr (360 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,870 cfs (251 cu m/s) July 22, gage height, 19.41 ft (5.916 m); minimum daily, 8.8 cfs (0.25 cu m/s) Oct. 21-23.

Period of record: Maximum discharge, 9,790 cfs (277 cu m/s) Feb. 22, 1971, gage height, 20.43 ft (6.227 m); minimum daily, 6.1 cfs (0.17 cu m/s) Oct. 18, 1968.

Flood of Jan. 21, 1959 reached a stage of 29.20 ft (8.900 m), from floodmark, on left upstream wingwall.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	190	348	417	422	125	650	220	202	249	401	26
2	56	323	292	331	762	122	550	210	170	194	250	20
3	38	313	249	326	650	149	470	200	468	140	173	19
4	30	180	219	1,180	524	167	500	180	318	310	141	17
5	30	121	206	721	424	368	720	170	313	262	119	16
6	48	93	1,020	529	343	451	630	150	335	150	105	16
7	38	96	741	398	319	1,610	554	140	315	109	94	16
8	29	298	3,120	330	250	1,370	1,560	150	225	89	84	15
9	24	245	4,200	260	230	792	1,130	190	178	74	78	15
10	22	178	1,320	220	210	648	838	194	142	299	108	15
11	19	166	818	190	200	2,760	600	255	120	533	85	16
12	18	144	658	170	190	1,690	520	176	105	221	66	15
13	16	432	1,040	160	180	924	430	146	99	128	94	15
14	16	1,460	801	149	190	830	370	127	83	93	90	20
15	15	573	650	144	250	1,840	330	114	73	84	69	24
16	14	366	508	133	600	1,010	300	105	70	74	58	22
17	13	278	367	127	500	2,300	350	102	65	62	50	17
18	12	213	355	126	400	2,000	1,200	94	62	52	46	14
19	12	268	343	152	350	1,400	3,000	89	56	46	42	13
20	12	809	940	160	300	850	2,500	99	298	96	38	12
21	8.8	526	737	134	270	940	1,500	87	160	2,470	34	13
22	8.8	389	582	502	240	800	680	76	92	7,420	31	12
23	8.8	319	465	607	220	600	1,100	109	67	1,420	29	12
24	9.7	264	386	486	190	500	1,800	105	55	807	29	12
25	11	238	333	385	170	460	800	85	46	632	31	12
26	13	294	305	327	150	760	560	82	40	496	40	12
27	13	348	272	386	140	820	410	1,110	1,490	399	31	10
28	13	334	247	428	130	600	330	813	1,190	328	26	10
29	15	435	220	574	-----	500	280	420	451	276	24	11
30	18	366	208	482	-----	840	240	333	323	234	22	11
31	15	-----	423	434	-----	830	-----	258	-----	480	23	-----
TOTAL	698.1	10,259	22,373	10,968	8,804	29,056	24,902	6,589	7,611	18,227	2,511	458
MEAN	22.5	342	722	354	314	937	830	213	254	588	81.0	15.3
MAX	102	1,460	4,200	1,180	762	2,760	3,000	1,110	1,490	7,420	401	26
MIN	8.8	93	206	126	130	122	240	76	40	46	22	10
CFSM	.08	1.21	2.55	1.25	1.11	3.31	2.93	.75	.90	2.08	.29	.05
IN.	.09	1.35	2.94	1.44	1.16	3.82	3.27	.87	1.00	2.40	.33	.06

CAL YR 1972 TOTAL 124,926.3 MEAN 341 MAX 6,560 MIN 6.6 CFSM 1.20 IN 16.42
WTR YR 1973 TOTAL 142,456.1 MEAN 390 MAX 7,420 MIN 8.8 CFSM 1.38 IN 18.73

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0300	9.78	2,490	04-08	1300	9.08	2,190
12-09	0200	17.51	7,210	04-19	unknown	13.67	4,500
03-07	1900	11.33	3,260	04-24	unknown	unknown	a2,500
03-11	1500	13.15	4,190	05-27	1900	8.93	2,130
03-15	0300	9.94	2,570	06-27	2200	11.77	3,480
03-17	unknown	unknown	a3,000	07-22	0900	19.41	8,870

a About

03303000 Blue River near White Cloud, Ind.

LOCATION.—Lat 38°14'15", long 86°13'42", in NW 1/4 SE 1/4 sec.19, T.3 S., R.3 E., Harrison County, on left bank 400 ft (122 m) downstream from Spring Creek, 0.2 mile (0.3 km) upstream from bridge on State Highway 62, and 0.8 mile (1.3 km) north of White Cloud.

DRAINAGE AREA.—About 476 sq mi (1,233 sq km), of which 192 sq mi (497 sq km) does not contribute directly to surface runoff. Also, part of flow from Indian Creek, downstream from Corydon, Ind., enters Blue River via solution channel in Karst area, Harrison Spring, and Spring Creek.

PERIOD OF RECORD.—WATER DISCHARGE: October 1930 to current year. Monthly figures only for some periods, published in WSP 1305. SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 434.26 ft (132.362 m) above mean sea level (levels by Indiana Department of Natural Resources from adjusted elevation of U.S. Coast and Geodetic Survey bench mark). Prior to Nov. 16, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—43 years, 610 cfs (17.28 cu m/s), 17.40 in/yr (442 mm/yr).

EXTREMES.—Current year: Maximum discharge, 14,700 cfs (416 cu m/s) July 22, gage height, 15.3 ft (4.691 m); minimum daily, 25 cfs (0.708 cu m/s) Oct. 23.
Period of record: Maximum discharge, 28,500 cfs (807 cu m/s) Jan. 22, 1959, gage height, 23.07 ft (7.032 m); minimum daily, 9.6 cfs (0.27 cu m/s) Oct. 17, 1964.

REMARKS.—Records poor. Stage-discharge relation affected by bridge construction below gage.

REVISIONS (WATER YEARS).—WSP 1335: 1921-32, 1933(M), 1935-38(M), 1944. WSP 1385: Drainage area. WSP 1555: 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	116	1,140	976	822	305	1,600	638	458	730	1,080	75
2	190	426	996	772	1,180	289	1,280	616	415	610	737	72
3	122	816	790	752	1,460	332	1,070	592	641	502	591	70
4	94	545	630	1,940	1,090	418	1,170	526	765	458	510	66
5	104	314	522	1,760	930	740	1,670	482	795	645	455	64
6	106	225	1,330	1,210	804	1,290	1,280	445	672	492	440	62
7	94	201	3,180	944	682	2,640	1,090	412	606	248	415	60
8	92	404	5,100	764	620	4,780	2,200	420	510	209	350	59
9	80	644	12,700	600	540	2,350	2,860	543	428	196	310	58
10	67	490	3,800	500	490	1,480	1,890	540	374	592	312	58
11	58	366	1,960	440	450	4,680	1,370	582	327	1,550	327	58
12	51	314	1,390	400	430	5,920	1,130	505	349	1,290	318	57
13	48	696	1,690	380	420	2,270	975	428	620	780	273	57
14	48	4,140	1,890	360	450	1,700	820	379	740	482	442	70
15	43	1,710	1,390	352	629	3,840	730	349	613	332	336	90
16	40	750	1,150	336	1,410	2,510	672	327	540	278	232	80
17	40	613	896	344	1,120	4,680	775	311	554	247	179	68
18	37	554	724	328	910	5,540	3,280	293	475	220	154	63
19	34	630	708	364	860	2,750	6,850	280	350	190	136	56
20	30	2,290	1,370	428	800	1,890	7,510	269	690	169	128	49
21	26	2,080	1,690	432	720	230	3,680	261	961	2,320	118	46
22	26	1,340	1,260	992	652	1,880	2,010	254	529	13,600	109	44
23	25	989	1,030	1,250	596	1,370	2,920	248	374	7,210	103	43
24	26	755	856	1,020	554	1,090	5,420	266	282	2,000	103	44
25	28	588	720	809	478	1,000	2,400	265	246	1,260	108	44
26	27	624	632	687	418	1,780	1,650	239	222	915	106	40
27	26	880	578	692	379	1,900	1,240	870	910	740	102	39
28	27	1,140	520	804	341	1,330	996	2,130	5,830	627	105	38
29	34	1,390	480	960	-----	1,120	810	850	1,460	540	97	39
30	37	1,370	448	1,020	-----	1,680	695	610	840	540	89	38
31	43	-----	684	888	-----	1,720	-----	515	-----	696	76	-----
TOTAL	9,919	27,400	52,254	23,504	20,235	65,504	62,043	15,445	22,576	40,668	8,841	1,707
MEAN	61.9	913	1,686	758	723	2,113	2,068	498	753	1,312	285	56.9
MAX	216	4,140	12,700	1,940	1,460	5,920	7,510	2,130	5,830	13,600	1,080	90
MIN	25	116	448	328	341	230	672	239	222	169	76	38
CFSM	.13	1.92	3.54	1.59	1.52	4.44	4.34	1.05	1.58	2.76	.60	.12
IN.	.15	2.14	4.08	1.84	1.58	5.12	4.85	.21	1.76	3.18	.69	.13

CAL YR 1972 TOTAL 270,221 MEAN 738 MAX 12,700 MIN 25 CFSM 1.55 IN 21.12
WTR YR 1973 TOTAL 342,096 MEAN 937 MAX 13,600 MIN 25 CFSM 1.97 IN 26.74

PEAK DISCHARGE (BASE, 7,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-09	1300	14.94	13,800	04-20	0300	13.45	9,200
03-11	2400	13.64	9,920	06-28	0200	13.33	8,720
03-18	0100	12.98	7,540	07-22	2100	15.39	14,700

03303000 Blue River near White Cloud, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)
NOV. 16...	1220	9.0	685	64	12
DEC. 20...	1200	8.0	1230	45	149
JULY 18...	1115	23.5	217	69	40
AUG. 29...	1020	25.0	94	44	11

03303300 Middle Fork Anderson River at Bristow, Ind.

LOCATION.--Lat 38°08'19", long 86°43'16", in SW 1/4 NE 1/4 sec.27, T.4 S., R.3 W., Perry County, on left bank at downstream side of bridge on State Highway 145 at Bristow, 2.0 miles (3.2 km) downstream from Coon Branch, and 6.0 miles (9.7 km) upstream from Sulphur Fork Creek.

DRAINAGE AREA.--39.8 sq mi (103.1 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: August 1961 to current year.

SEDIMENT DISCHARGE: March 1964 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 395.00 ft (120.396 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 52.4 cfs (1.484 cu m/s), 17.88 in/yr (454 mm/yr).

EXTREMES.--Current year: Maximum discharge, 805 cfs (22.8 cu m/s) Dec. 8, gage height, 13.95 ft (4.252 m); minimum daily, 0.03 cfs (0.001 cu m/s) Aug. 7, 8.

Period of record: Maximum discharge, 6,360 cfs (180 cu m/s) Mar. 9, 1964; maximum gage height, 19.33 ft (5.892 m) Mar. 4, 1964; no flow at times most years.

Flood of Jan. 21, 1959, reached a stage of 20.0 ft (6.096 m), from floodmark, discharge, 15,000 cfs (425 cu m/s), from rating curve extended above 7,000 cfs (198 cu m/s). This is the maximum flood since 1905, from information by local resident.

REMARKS.--Records good. Flow regulated by Soil Conservation Service control structures beginning June 1967.

REVISIONS.--WRD Ind. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	7.6	40	131	77	20	93	40	35	9.5	.76	.15
2	.46	6.3	32	83	97	20	83	70	31	9.2	.35	.15
3	.35	5.0	27	113	83	24	71	65	80	9.2	.19	.15
4	34	4.0	24	239	68	30	121	53	87	26	.15	.15
5	7.9	3.5	22	141	58	63	108	44	154	21	.11	.19
6	1.8	3.0	169	90	51	61	85	38	93	13	.07	2.8
7	1.4	15	103	63	45	314	86	34	67	9.9	.03	3.6
8	1.2	13	540	50	63	306	322	38	47	9.2	.03	3.4
9	1.1	9.2	487	40	55	166	233	37	35	8.9	.19	3.4
10	1.0	8.9	427	32	47	141	161	95	27	8.6	.40	3.2
11	1.0	7.9	251	27	41	573	115	110	22	8.2	.31	2.9
12	.94	6.6	109	23	37	461	89	73	18	7.9	.27	2.8
13	.94	125	253	19	37	401	71	51	15	7.2	1.2	2.8
14	1.0	75	149	18	95	348	59	40	13	6.3	9.2	2.5
15	.94	41	103	18	127	374	51	32	13	5.5	23	2.3
16	.94	38	78	18	90	325	51	26	12	4.6	14	2.0
17	.88	21	55	18	64	474	111	22	19	3.8	8.6	1.8
18	.88	15	47	20	53	414	414	18	18	3.2	5.5	1.6
19	.88	55	85	38	48	344	434	16	13	2.5	4.0	1.4
20	.94	71	196	34	45	206	447	14	11	1.8	2.6	1.1
21	1.1	45	127	53	41	149	378	12	9.9	1.6	1.6	.88
22	1.1	36	87	128	37	107	229	12	9.5	2.9	1.0	.70
23	1.2	29	65	100	34	82	284	14	9.2	2.8	.76	.52
24	1.1	22	53	73	30	66	384	13	9.2	2.5	.64	.52
25	1.2	25	45	56	28	83	280	11	8.9	2.1	.58	.52
26	1.1	41	41	52	26	201	151	13	8.2	1.8	.52	.52
27	1.2	41	37	92	24	178	103	260	15	1.6	.35	.46
28	1.4	46	34	91	22	119	75	195	12	1.4	.27	.64
29	1.3	44	31	98	-----	99	59	94	15	1.3	.19	.76
30	1.3	40	51	78	-----	104	50	61	12	1.2	.19	.58
31	3.4	-----	205	66	-----	100	-----	45	-----	1.1	.15	-----
TOTAL	74.47	900.0	3,973	2,102	1,523	6,353	5,198	1,646	918.9	195.8	77.21	44.49
MEAN	2.40	30.0	128	67.8	54.4	205	173	53.1	30.6	6.32	2.49	1.48
MAX	34	125	540	239	127	573	447	260	154	26	23	3.6
MIN	.35	3.0	22	18	22	20	50	11	8.2	1.1	.03	.15
CFSM	.06	.75	3.22	1.70	1.37	5.15	4.35	1.33	.77	.16	.06	.04
IN.	.07	.84	3.71	1.96	1.42	5.94	4.86	1.54	.86	.18	.07	.04

CAL YR 1972 TOTAL 26,109.70 MEAN 71.3 MAX 974 MIN 0 CFSM 1.79 IN 24.40
WTR YR 1973 TOTAL 23,005.87 MEAN 63.0 MAX 573 MIN .03 CFSM 1.58 IN 21.50

03303300 Middle Fork Anderson River at Bristow, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT (MG/L)	SUS- PENDE SEDIMENT DIS- CHARGE (T/DAY)
OCT.					
11...	0950	14.0	1.0	23	.06
NOV.					
16...	1300	7.0	29	18	1.4
JAN.					
08...	1310	.5	49	15	2.0
FEB.					
20...	1220	3.0	44	8	.97
MAR.					
27...	1500	11.0	169	23	10
MAY					
01...	1345	15.0	50	37	5.0
JUNE					
07...	1230	21.0	68	51	9.4
JULY					
11...	1130	25.0	8.2	47	1.0
AUG.					
16...	0900	23.5	15	54	2.2
SEP.					
19...	1315	19.0	1.3	9	.03

03303400 Crooked Creek at Santa Claus, Ind.

LOCATION.—Lat 38°07'05", long 86°53'24", in SW 1/4 SE 1/4 sec.31, T.4 S., R.4 W., Spencer County, on right bank at upstream side of county road bridge, 1.3 miles (2.1 km) east of Santa Claus Post Office, and 1.8 miles (2.9 km) upstream from unnamed right-bank tributary.

DRAINAGE AREA.—7.86 sq mi (20.36 sq km).

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 404.34 ft (123.243 m) above mean sea level.

EXTREMES.—Current year: Maximum discharge, 549 cfs (15.5 cu m/s) July 14, gage height, 8.78 ft (2.676 m); no flow Oct. 10-30, July 13, 30, 31, Aug. 1-3, 5-8, 11, 19, 31, Sept. 1, 2, 5-12, 15-30.

Period of record: Maximum discharge, 4,100 cfs (116 cu m/s) Apr. 28, 1970, gage height, 9.74 ft (2.969 m), from rating curve extended above 450 cfs (12.7 cu m/s) on basis of two culverts and flow-over-road measurement of peak flow at site 1.6 miles (2.6 km) downstream, drainage area, 16.0 sq mi (41.4 sq km), adjusted to gage site; no flow many days each year.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	1.9	3.0	9.2	35	1.7	12	5.9	2.2	3.1	0	0
2	.04	6.3	2.2	5.7	19	2.5	10	24	3.1	.75	0	0
3	.02	1.1	1.8	99	13	7.7	8.2	9.8	19	4.1	0	.05
4	.02	.62	2.5	34	9.0	8.2	27	6.3	5.3	3.3	.05	.02
5	.06	.49	2.3	12	7.1	13	14	4.5	5.7	.75	0	0
6	.02	.43	68	6.9	5.7	8.4	10	3.5	6.7	.43	0	0
7	.01	1.7	7.9	4.5	4.9	96	28	3.3	2.7	.24	0	0
8	.01	1.6	316	3.1	15	21	86	33	1.7	.13	0	0
9	.01	.80	48	2.3	7.7	22	26	10	1.3	.10	.07	0
10	0	.80	16	1.9	5.5	41	17	64	1.0	.09	.04	0
11	0	.88	7.5	1.5	4.5	247	13	21	.93	.05	0	0
12	0	.66	60	1.2	3.9	29	9.6	9.6	1.1	.03	.97	0
13	0	22	90	1.1	5.5	14	7.1	5.3	.84	0	19	.10
14	0	7.5	14	1.4	113	117	6.1	3.1	.84	66	3.7	.03
15	0	1.9	11	1.4	31	48	5.3	2.3	.93	8.8	.59	0
16	0	1.4	7.1	1.4	12	68	.25	1.8	.93	1.8	.08	0
17	0	1.2	4.7	1.7	8.6	152	67	1.5	3.1	.88	.03	0
18	0	.97	4.1	2.6	6.5	42	228	1.2	.97	.59	.01	0
19	0	14	65	6.5	5.3	22	152	1.1	1.0	.36	0	0
20	0	7.9	39	3.1	6.1	19	73	.93	.84	.33	0	0
21	0	2.8	14	53	4.5	14	22	.80	.49	.84	0	0
22	0	2.5	9.0	42	3.7	9.4	17	1.1	.28	2.2	0	0
23	0	1.8	6.3	16	3.1	7.3	97	.97	.13	.43	0	0
24	0	1.6	5.1	9.2	2.5	5.9	33	.97	.71	3.3	0	0
25	0	3.1	4.1	6.3	2.5	44	21	.80	.56	.62	0	0
26	0	5.5	4.1	33	2.2	77	14	.66	.15	.24	0	0
27	0	4.1	3.3	39	1.9	25	9.6	32	19	.09	0	0
28	0	4.1	3.0	26	1.8	14	6.7	9.4	2.8	.05	0	0
29	0	2.8	2.8	16	-----	13	5.3	9.8	1.0	.01	0	0
30	0	3.1	21	11	-----	13	4.5	6.1	.66	0	0	0
31	.80	-----	29	8.8	-----	15	-----	3.0	-----	0	0	-----
TOTAL	1.04	105.55	871.8	460.8	340.5	1,217.1	1,054.4	277.73	85.96	99.61	24.54	.20
MEAN	.034	3.52	28.1	14.9	12.2	39.3	35.1	8.96	2.87	3.21	.79	.007
MAX	.80	22	316	99	113	247	228	64	19	66	19	.10
MIN	0	.43	1.8	1.1	1.8	1.7	4.5	.66	.13	0	0	0
CFSM	.004	.45	3.58	1.90	1.55	5.00	4.47	1.14	.37	.41	.10	.0009
IN.	.004	.50	4.13	2.18	1.61	5.76	4.99	1.31	.41	.47	.12	0

CAL YR 1972 TOTAL 4,161.22 MEAN 11.4 MAX 316 MIN 0 CFSM 1.45 IN 19.69
WTR YR 1973 TOTAL 4,539.23 MEAN 12.4 MAX 316 MIN 0 CFSM 1.58 IN 21.48

PEAK DISCHARGE (BASE, 500 CFS).—Mar. 11 (0745) 532 cfs (8.75 ft); July 14 (1545) 549 cfs (8.78 ft).

03322100 Pigeon Creek at Evansville, Ind.

LOCATION.—Lat 38°00'14", long 87°32'19", in NE 1/4 NW 1/4 sec.16, T.6 S., R.10 W., Vanderburgh County, on left bank in the median strip of Old U.S. 41, between two steel truss bridges at Evansville, and at mile 5.94 (9.56 km).

DRAINAGE AREA.—323 sq mi (837 sq km).

PERIOD OF RECORD.—October 1960 to current year.

GAGE.—Water-stage recorder. Datum of gage is 352.24 ft (107.363 m) above mean sea level. Nonrecording auxiliary gage at site 1.3 miles (2.1 km) upstream at same datum. Prior to October 1, 1968, water-stage recorder, and October 1, 1968, to September 30, 1971, nonrecording gage at site 1.3 miles (2.1 km) upstream, was used as base gage, and present base gage was used as auxiliary gage.

AVERAGE DISCHARGE.—13 years, 315 cfs (8.92 cu m/s), 13.24 in/yr (336 mm/yr).

EXTREMES.—Current year: Maximum daily discharge, 4,040 cfs (114 cu m/s) Apr. 20; maximum gage height, 19.12 ft (5.83 m) Dec. 17 (backwater from Ohio River); minimum daily discharge, 3.5 cfs (0.099 cu m/s) Oct. 10-12, 14, 15.

Period of record: Maximum discharge, 12,100 cfs (343 cu m/s) May 10, 1961, gage height, 27.94 ft (8.52 m); minimum daily (unaffected by backwater), 1 cfs (0.028 cu m/s) Aug. 30 to Sept. 1, Oct. 11, 12, 21, 22, 26, 1964; zero or reverse flow occurs at times due to extreme stages on the Ohio River.

REMARKS.—Records good except those during periods of backwater from the Ohio River, which are poor.

REVISIONS (WATER YEARS).—WSP 2109: 1960. WRD Ind. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	156	118	400	402	74	1,000	250	150	546	20	14
2	18	460	106	200	816	84	800	1,700	160	233	18	20
3	12	540	91	913	792	165	500	700	807	132	18	15
4	10	215	81	1,340	503	221	550	300	350	99	18	12
5	12	94	79	1,020	325	352	450	200	735	99	21	15
6	4.0	60	173	700	250	318	350	160	720	62	18	10
7	4.0	56	308	450	220	446	350	180	720	49	15	9.0
8	4.6	98	1,680	300	600	502	1,300	3,590	645	38	15	7.9
9	4.0	132	2,630	201	620	302	1,000	1,800	209	35	15	7.9
10	3.5	75	2,000	128	250	565	500	2,110	130	42	12	9.7
11	3.5	68	1,300	108	170	2,490	350	1,500	97	81	13	12
12	3.5	70	1,500	86	150	1,960	280	700	83	42	35	11
13	4.0	499	2,000	73	180	1,200	250	300	504	30	896	8.4
14	3.5	1,590	800	65	500	2,000	210	200	744	231	825	7.4
15	3.5	1,100	350	65	900	1,700	190	170	801	882	588	7.4
16	4.0	500	200	73	750	1,500	190	140	398	678	169	7.4
17	4.6	250	170	74	363	2,300	500	120	273	215	88	7.4
18	6.2	150	150	90	257	2,000	2,830	99	460	92	56	7.4
19	6.8	582	500	356	200	1,300	2,500	86	604	73	42	7.4
20	6.8	987	1,300	666	169	900	4,040	78	642	49	34	7.4
21	6.8	903	600	706	142	600	1,800	69	298	54	35	7.4
22	8.4	250	350	1,390	129	400	3,500	73	146	390	24	7.4
23	4.0	200	280	1,070	117	300	3,910	92	99	478	21	7.4
24	7.4	170	230	1,110	112	280	1,600	102	72	1,250	16	7.9
25	7.4	200	200	892	98	1,500	800	74	64	388	12	32
26	9.7	450	180	370	92	2,000	550	72	50	147	9.0	125
27	15	405	160	525	88	900	350	788	477	83	6.8	27
28	12	271	150	591	79	450	250	861	804	55	6.2	10
29	9.0	167	150	485	-----	450	200	750	984	37	9.0	6.8
30	16	130	400	310	-----	1,000	170	300	771	29	12	15
31	75	-----	1,000	231	-----	1,300	-----	180	-----	24	10	-----
TOTAL	301.2	10,828	19,236	14,988	9,274	29,559	31,270	17,744	12,997	6,643	3,077.0	449.6
MEAN	9.72	361	621	483	331	954	1,042	572	433	214	99.3	15.0
MAX	75	1,590	2,630	1,390	900	2,490	4,040	3,590	984	1,250	896	125
MIN	3.5	56	79	65	79	74	170	69	50	24	6.2	6.8
CFSM	.03	1.12	1.92	1.50	1.02	2.95	3.23	1.77	1.34	.66	.31	.05
IN.	.03	1.25	2.22	1.73	1.07	3.40	3.60	2.04	1.50	.77	.35	.05
CAL YR 1972	TOTAL	131,182.2	MEAN	358	MAX	6,340	MIN	2.4	CFSM	1.11	IN	15.11
WTR YR 1973	TOTAL	156,366.8	MEAN	428	MAX	4,040	MIN	3.5	CFSM	1.33	IN	18.01

03322500 Wabash River near New Corydon, Ind.

LOCATION.--Lat 40°33'50", long 84°48'10", in NE 1/4 SE 1/4 sec.3, T.24 N., R.15 E., Jay County, on left bank, 10 ft (3 m) downstream from county bridge on Indiana-Ohio State line road, 2 miles (3 km) east of New Corydon, 2.8 miles (4.5 km) downstream from Beaver Creek, and at mile 465.6 (749.2 km).

DRAINAGE AREA.--262 sq mi (678 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: April 1951 to current year.
CHEMICAL ANALYSES: July 1969 to June 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 830.10 ft (253.014 m) above mean sea level. Prior to June 24, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 193 cfs (5.466 cu m/s), 10.00 in/yr (254 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,460 cfs (126 cu m/s) Nov. 14, gage height, 18.20 ft (5.547 m); minimum daily, 5.4 cfs (0.15 cu m/s) Sept. 30.

Period of record: Maximum discharge, 8,720 cfs (247 cu m/s) Jan. 22, 1959, gage height, 20.47 ft (6.239 m), from flood-marks; minimum daily, 0.8 cfs (0.023 cu m/s) Dec. 22, 23, 1963.

REMARKS.--Records fair. Occasional regulation by Grand Lake, diversion from or into St. Marys River basin, and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 1555: 1957(P). WSP 1909: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	350	406	808	484	292	991	102	69	114	41	161
2	370	2,690	380	508	1,120	182	664	94	58	87	35	156
3	269	3,710	360	454	970	123	521	110	52	146	32	153
4	475	1,840	356	1,190	621	185	524	86	50	234	31	149
5	728	764	529	756	492	531	794	69	934	152	30	146
6	451	398	2,790	489	440	478	556	62	2,600	115	28	143
7	336	850	2,580	410	401	283	448	59	2,240	98	25	141
8	283	2,800	1,160	360	388	369	416	77	716	85	24	140
9	275	1,680	714	330	360	406	384	193	258	78	23	138
10	283	816	568	310	339	1,950	350	124	155	73	23	134
11	245	566	411	300	327	2,420	317	144	121	69	34	88
12	628	459	470	290	321	2,600	492	99	109	65	660	76
13	544	628	430	280	322	949	1,170	74	100	59	364	74
14	345	3,780	1,150	280	328	1,170	572	64	88	52	1,060	73
15	278	3,190	682	280	349	2,080	371	90	79	48	1,900	72
16	255	1,640	518	290	340	952	338	71	74	47	714	71
17	247	750	580	322	350	2,210	342	59	72	45	243	70
18	222	628	478	332	350	1,950	460	53	69	43	138	71
19	208	504	408	341	339	1,510	404	134	62	40	95	71
20	205	766	521	331	336	952	341	272	58	38	300	70
21	205	802	619	287	336	688	193	116	55	67	196	65
22	203	585	660	505	322	550	943	83	50	146	110	20
23	210	502	635	848	321	484	2,070	72	47	120	131	12
24	215	449	657	470	307	449	862	66	45	75	137	9.1
25	205	422	669	384	301	637	328	79	45	70	131	7.9
26	200	529	601	401	300	1,480	176	212	43	83	124	7.2
27	197	658	524	451	286	1,170	132	282	342	73	117	6.6
28	198	639	462	646	290	660	110	180	412	55	116	6.0
29	208	496	465	852	-----	540	89	112	550	43	159	5.8
30	210	430	601	520	-----	782	86	160	203	41	165	5.4
31	209	-----	1,150	414	-----	710	-----	95	-----	47	164	-----
TOTAL	9,667	34,321	22,534	14,439	11,440	29,742	15,444	3,493	9,756	2,508	7,350	2,342.0
MEAN	312	1,144	727	466	409	959	515	113	325	80.9	237	78.1
MAX	760	3,780	2,790	1,190	1,120	2,600	2,070	282	2,600	234	1,900	161
MIN	197	350	356	280	286	123	86	53	43	38	23	5.4
CFSM	1.19	4.37	2.77	1.78	1.56	3.66	1.97	.43	1.24	.31	.90	.30
IN.	1.37	4.87	3.20	2.05	1.62	4.22	2.19	.50	1.39	.36	1.04	.33

CAL YR 1972 TOTAL 142,878.5 MEAN 390 MAX 3,780 MIN 8.8 CFSM 1.49 IN 20.29
WTR YR 1973 TOTAL 163,036.0 MEAN 447 MAX 3,780 MIN 5.4 CFSM 1.71 IN 23.15

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0300	18.12	4,360	03-11	2200	17.33	3,400
11-08	0900	17.06	3,070	03-17	1500	16.72	2,750
11-14	1900	18.20	4,460	04-23	0200	16.46	2,510
12-06	2000	17.59	3,710	06-06	2100	17.25	3,300

03322500 Wabash River near New Corydon, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 12...	0925	--	16.0	17.0	380	7.6	7.0	70	8.8	130000	352000
NOV. 15...	0830	3500	3.0	-5.5	280	7.1	8.2	61	7.4	8860	9400
DEC. 13...	1300	--	--	--	--	--	--	--	--	--	--
13...	1300	3040	1.0	-4.0	285	8.0	12.4	87	8.0	7000	35000
JAN. 17...	1045	--	--	--	500	7.9	--	--	--	80	--
17...	1045	154	4.0	8.5	500	7.9	9.5	72	9.0	--	1200
FEB. 21...	1215	206	1.5	5.0	700	8.2	9.0	64	7.6	322	950
MAR. 21...	1230	428	4.4	4.0	540	7.2	9.6	74	5.8	854	14600
APR. 18...	1130	402	12.0	17.0	460	7.7	8.4	78	8.4	11400	32500
MAY 23...	0830	38	16.0	19.0	775	7.5	9.2	93	3.2	1020	6000
JUNE 20...	0915	62	23.0	25.0	680	7.5	4.8	55	9.2	520	4385

DATE	DIS- SOLVED AMMONIA (NH4) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	TUR- BID- ITY (JTU)	ALKA- LINITY AS CACO3 (MG/L)	HARD- NESS (CA+MG) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT. 12...	--	8.4	--	150	121	190	50	16	22	56	75
NOV. 15...	.03	19	.2	120	77	120	27	12	12	13	41
DEC. 13...	.19	12	.7	125	93	130	37	8.6	18	29	21
13...	--	--	--	--	--	--	--	--	--	--	--
JAN. 17...	.14	3.5	.0	10	156	260	65	24	26	78	120
17...	--	--	--	--	--	--	--	--	--	--	--
FEB. 21...	.18	5.8	.0	10	157	270	62	29	26	81	20
MAR. 21...	.14	8.9	.1	60	152	250	63	23	25	71	20
APR. 18...	.06	3.8	.3	100	133	230	58	21	22	73	41
MAY 23...	1.1	9.3	.2	45	226	390	98	36	39	130	160
JUNE 20...	1.0	3.1	.1	40	169	310	73	32	30	130	170

DATE	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
OCT. 12...	.65	.04	1.9	4.4	.27	1.2	958	694	264	--	.36
NOV. 15...	.02	.07	4.3	1.2	.20	.25	414	234	180	1700	.24
DEC. 13...	.15	.21	2.7	4.0	.28	.76	566	390	176	--	.24
13...	--	--	--	--	--	--	--	--	--	--	--
JAN. 17...	.11	.02	.80	1.1	.02	.18	372	32	340	--	.46
17...	--	--	--	--	--	--	--	--	--	--	--
FEB. 21...	.14	.01	1.3	1.0	.05	.17	360	34	326	181	.44
MAR. 21...	.11	.05	2.0	1.6	.03	.30	426	134	292	337	.40
APR. 18...	.05	.11	.85	2.8	.12	.41	562	250	312	339	.42
MAY 23...	.82	.06	2.1	1.3	.21	.36	646	140	506	51.9	.69
JUNE 20...	.80	.05	.70	1.9	.10	.36	566	150	416	69.6	.57

WABASH RIVER BASIN

03322900 Wabash River at Linn Grove, Ind.

LOCATION.—Lat 40°39'22", long 85°01'58", in SE 1/4 SE 1/4 sec.34, T.26 N., R.13 E., Adams County, on right bank 10 ft (3 m) downstream from bridge on State Highway 118, 800 ft (244 m) downstream from Shoemaker ditch, 0.8 mile (1.3 km) north of Linn Grove, and 2.2 miles (3.5 km) upstream from Rice ditch.

DRAINAGE AREA.—453 sq mi (1,173 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: September 1964 to current year.

SEDIMENT DISCHARGE: July 1971 to current year (partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 808.00 ft (246.278 m) above mean sea level.

AVERAGE DISCHARGE.—9 years, 362 cfs (10.25 cu m/s), 10.86 in/yr (276 mm/yr).

EXTREMES.—Current year: Maximum discharge, 5,190 cfs (147 cu m/s) Nov. 15, gage height, 12.33 ft (3.758 m); minimum daily, 19 cfs (0.54 cu m/s) Sept. 30.

Period of record: Maximum discharge, 6,620 cfs (187 cu m/s) Dec. 11, 1966, gage height, 13.01 ft (3.965 m); minimum daily, 5.1 cfs (0.14 cu m/s) Oct. 8, 1964.

Flood in April 1964 reached a stage of 13.13 ft (4.002 m), from floodmark, discharge, 6,900 cfs (195 cu m/s).

REMARKS.—Records good. Occasional regulation of Grand Lake, diversion from or into St. Marys River basin, and into Miami and Erie Canal.

REVISIONS (WATER YEARS).—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,760	383	503	1,290	579	324	1,350	164	136	218	58	190
2	1,500	1,800	447	1,140	1,180	318	1,360	166	102	138	50	185
3	750	2,740	407	731	1,440	255	1,060	176	87	114	42	183
4	612	4,190	389	1,280	1,390	300	793	170	118	198	37	183
5	1,240	3,680	444	1,470	968	636	927	132	925	236	34	178
6	1,150	2,460	1,860	1,280	667	938	977	109	1,750	158	33	176
7	668	1,460	2,540	1,050	548	689	750	98	2,520	120	31	172
8	422	1,620	3,970	860	501	672	568	101	2,980	104	29	172
9	341	2,370	2,960	740	458	561	509	193	2,180	90	28	174
10	320	2,570	2,170	650	415	1,200	501	242	795	81	27	172
11	314	1,920	940	580	400	2,090	465	198	236	75	32	160
12	727	1,170	500	520	390	3,120	533	180	220	69	140	114
13	1,090	894	1,000	490	381	3,430	1,330	136	220	62	616	98
14	759	2,400	2,500	470	369	2,570	1,530	107	164	55	640	98
15	416	4,230	1,500	461	392	2,450	1,010	117	136	50	1,390	96
16	332	4,870	900	441	429	2,840	617	150	124	48	1,660	96
17	302	3,570	720	415	370	2,630	1,100	114	136	47	1,530	96
18	272	2,320	580	408	410	3,090	1,090	93	128	46	503	94
19	213	1,460	670	426	400	3,370	1,250	98	109	44	210	94
20	228	1,140	800	415	397	2,750	895	465	96	44	281	94
21	223	1,170	898	386	395	1,960	542	302	84	74	422	94
22	223	1,110	1,010	524	388	1,390	673	168	74	190	225	88
23	225	826	1,030	1,090	374	989	1,580	132	66	272	146	53
24	233	620	1,050	1,080	357	759	2,250	114	59	154	170	32
25	236	535	1,070	658	342	826	1,780	106	54	117	172	24
26	225	700	1,010	538	339	1,450	739	210	53	188	162	22
27	218	979	858	588	330	1,820	284	371	87	130	152	20
28	218	993	678	744	317	1,770	200	514	407	99	144	20
29	242	808	649	1,090	-----	1,270	164	269	577	69	146	20
30	257	588	884	1,030	-----	1,230	144	213	472	72	185	19
31	245	-----	1,170	687	-----	1,230	-----	213	-----	84	193	-----
TOTAL	15,961	55,576	36,107	23,532	14,926	48,927	26,971	5,821	15,097	3,446	9,488	3,217
MEAN	515	1,853	1,165	759	533	1,578	899	188	503	111	306	107
MAX	1,760	4,870	3,970	1,470	1,440	3,430	2,250	514	2,980	272	1,660	190
MIN	213	383	389	386	317	255	144	93	53	44	27	19
CFSM	1.14	4.09	2.57	1.68	1.18	3.48	1.98	.42	1.11	.25	.68	.24
IN.	1.31	4.56	2.97	1.93	1.23	4.02	2.21	.48	1.24	.28	.78	.26

CAL YR 1972/ TOTAL 267,106 MEAN 730 MAX 5,740 MIN 20 CFSM 1.61 IN 21.93
WTR YR 1973 TOTAL 259,069 MEAN 710 MAX 4,870 MIN 19 CFSM 1.57 IN 21.27

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-04	1400	11.69	4,330	12-14	unknown	unknown	2,600	03-27	2300	8.70	1,920
11-10	0300	9.92	2,700	03-13	0300	11.09	3,690	04-24	1300	9.36	2,330
11-15	2400	12.33	5,190	03-19	0100	10.94	3,540	06-08	0700	10.45	3,080
12-08	0300	11.46	4,080								

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03322900 Wabash River at Linn Grove, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDIMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL SIEVE DIAM. % FINER THAN .125 MM
OCT. 19...	1130	8.0	246	33	22	--	--	--	--	--	--	--
NOV. 29...	1110	3.0	843	33	75	--	--	--	--	--	--	--
DEC. 21...	1300	1.0	680	45	107	--	--	--	--	--	--	--
JAN. 23...	1055	1.0	1140	232	714	70	83	91	97	99	--	--
FEB. 22...	1055	.5	372	46	46	--	--	--	--	--	--	--
APR. 05...	0935	4.5	918	74	183	78	84	91	97	99	99	100
MAY 10...	1150	11.5	236	95	61	--	--	--	--	--	--	--
JUNE 06...	1420	17.5	1950	336	1770	78	90	93	97	99	100	--

WABASH RIVER BASIN

03323450 Huntington Lake near Huntington, Ind.

LOCATION.--Lat 40°50'43", long 85°28'06", in SW 1/4 SW 1/4 sec.25, T.28 N., R.9 E., Huntington County, on right bank at upstream side of State Highway 5, 1.5 miles (2.4 km) southeast of Huntington, and at mile 411.4 (661.9 km).

DRAINAGE AREA.--717 sq mi (1,857 sq km).

PERIOD OF RECORD.--January 1969 to current year. Prior to September 1970, published as Huntington "Reservoir".

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 46,130 acre-ft (56.9 cu hm) Mar. 21, elevation, 772.67 ft (235.510 m); minimum, 3,950 acre-ft (4.87 cu hm) Dec. 27, elevation, 736.65 ft (224.531 m).

Period of record: Maximum contents, 64,830 acre-ft (79.9 cu hm) Apr. 25, 1972, elevation, 780.00 ft (237.744 m); minimum, 240 acre-ft (0.296 cu hm) Mar. 5, 1969, elevation, 733.84 ft (223.674 m), lowered reservoir for repairs.

REMARKS.--Reservoir is formed by concrete and rolled-earth fill dam which is State Highway 5. Releases normally controlled by six sluices, 6.0 ft (1.83 m) wide and 6.0 ft (1.83 m) high and by spillway, crest elevation, 765 ft (233.2 m), with three taintor gates, 45 ft (13.7 m) by 36.5 ft (11.13 m) setting atop spillway. Minimum design capacity is 4,100 acre-ft (5.06 cu hm), elevation, 737 ft (224.6 m). Seasonal pool capacity is 12,500 acre-ft (15.4 cu hm), elevation, 749 ft (228.3 m). Capacity at flood control pool is 153,100 acre-ft (189 cu hm), elevation, 798 ft (243.2 m). Reservoir is used for flood control and recreation. Reservoir put into operation on Jan. 9, 1969.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	763.51	29,550	-
Oct. 31.....	742.84	7,580	-21,970
Nov. 30.....	740.31	5,950	-1,630
Dec. 31.....	746.38	10,230	+4,280
Calendar year 1972.....	-	-	+2,710
Jan. 31.....	745.47	9,510	-720
Feb. 28.....	737.42	4,330	-5,180
Mar. 31.....	748.65	12,170	+7,840
Apr. 30.....	748.15	11,720	-450
May 31.....	749.05	12,520	+800
June 30.....	749.85	13,260	+740
July 31.....	749.08	12,550	-710
Aug. 31.....	749.46	12,900	+350
Sept. 30.....	746.84	10,610	-2,290
Water year 1973.....	-	-	-18,940

03323500 Wabash River at Huntington, Ind.

LOCATION.—Lat 40°51'20", long 85°29'53", in SW 1/4 NE 1/4 sec.27, T.28 N., R.9 E., Huntington County, on right bank at the Huntington Water and Light Plant, 2 miles (3 km) south of Huntington, 2.4 miles (3.9 km) downstream from Huntington Lake, 3.2 miles (5.1 km) upstream from Little River, and at mile 409 (658 km).

DRAINAGE AREA.—721 sq mi (1,867 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: January 1951 to current year.

WATER TEMPERATURE: October 1963 to current year.

GAGE.—Water-stage recorder and concrete dam. Datum of gage is 700.04 ft (213.372 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 5, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—22 years, 601 cfs (17.02 cu m/s), 11.32 in/yr (288 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,910	530	1,600	1,520	1,430	498	2,900	22	228	770	160	160
2	3,310	588	1,270	1,670	1,820	506	2,450	24	228	406	128	274
3	3,500	926	690	1,680	1,900	506	2,390	337	204	267	54	329
4	3,340	2,120	624	1,690	2,140	514	2,290	385	156	248	38	329
5	2,880	2,770	730	1,720	2,260	597	1,990	193	345	315	65	274
6	2,770	3,160	1,070	1,730	2,400	948	1,830	92	830	308	65	198
7	2,740	3,910	1,470	1,710	2,440	1,400	1,770	208	1,370	210	65	171
8	1,460	3,830	1,750	1,670	1,810	1,370	1,310	399	1,790	160	65	171
9	690	3,760	1,850	1,610	1,080	1,220	810	288	2,290	160	57	171
10	588	3,680	1,930	1,560	670	1,120	533	182	2,490	160	42	204
11	546	3,610	1,970	1,500	633	1,660	124	427	2,440	160	46	222
12	546	3,530	1,990	1,140	633	2,300	700	338	2,210	120	189	228
13	633	3,030	1,990	588	633	2,570	1,010	215	1,710	100	228	198
14	690	1,370	2,020	579	633	2,570	1,320	308	684	100	519	176
15	750	1,210	2,270	522	624	2,590	1,770	294	204	100	997	467
16	790	2,290	2,970	522	546	2,870	2,210	100	151	96	1,660	547
17	860	2,810	3,300	680	469	2,870	1,970	109	260	51	1,660	36
18	893	3,480	3,150	670	469	2,600	1,600	160	322	28	1,660	34
19	760	4,140	2,960	642	538	2,940	1,950	260	260	28	1,300	34
20	538	4,160	2,780	670	740	3,520	2,250	198	160	77	968	44
21	538	4,230	2,630	597	651	3,570	1,440	386	151	171	1,640	149
22	490	3,220	2,840	710	506	3,800	871	597	146	160	1,590	215
23	378	3,430	1,900	1,210	570	3,930	1,410	301	146	343	1,320	222
24	462	3,320	1,620	1,650	570	4,230	2,130	146	151	420	360	193
25	615	3,200	1,700	1,120	506	3,900	2,430	138	96	420	160	171
26	498	3,040	1,720	1,120	420	2,370	2,420	156	89	279	260	151
27	441	3,200	1,610	1,120	441	2,980	1,390	408	461	166	336	115
28	506	3,330	1,120	1,100	455	4,030	800	740	606	166	336	115
29	448	3,500	1,030	1,100	-----	4,040	318	660	483	166	210	115
30	441	2,070	1,090	1,100	-----	3,960	22	399	740	160	160	115
31	498	-----	1,220	1,100	-----	3,830	-----	260	-----	160	160	-----
TOTAL	36,509	87,444	56,864	36,000	27,987	75,809	46,408	8,730	21,401	6,475	16,498	5,828
MEAN	1,178	2,915	1,834	1,161	1,000	2,445	1,547	282	713	209	532	194
MAX	3,500	4,230	3,300	1,730	2,440	4,230	2,900	740	2,490	770	1,660	547
MIN	378	530	624	522	420	498	22	22	89	28	38	34
CAL YR 1972	TOTAL 427,932	MEAN 1,169	MAX 4,230	MIN 15								
WTR YR 1973	TOTAL 425,953	MEAN 1,167	MAX 4,230	MIN 22								

WABASH RIVER BASIN

03323500 Wabash River at Huntington, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 4,470 cfs (126 cu m/s) Mar. 24, gage height, 14.62 ft (4.456 m); minimum daily, 22 cfs (0.62 cu m/s) Apr. 30, May 1.

Period of record: Maximum discharge, 14,900 cfs (422 cu m/s) Feb. 10, 1959; maximum gage height, 23.20 ft (7.071 m) Feb. 10, 1959 (backwater from ice); minimum daily discharge, 2.4 cfs (0.068 cu m/s) Oct. 28, 29, 1964.

Flood in March 1913 reached a stage of 22.7 ft (6.92 m), from high-water mark by Corps of Engineers.

WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C Aug. 8; minimum, 0.5°C Dec. 11-25, Jan. 7-12.

Period of record: Maximum temperature, 32.0°C July 27, 1964; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good. Flow regulated by Huntington Lake (See sta 03323450).

REVISIONS (WATER YEARS).--WSP 1909: 1459. WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	18.5	9.5	9.5	3.0	3.0	3.0	3.0	2.0	2.0	4.5	3.5
2	18.5	18.0	10.0	9.5	3.0	3.0	3.0	2.5	2.0	2.0	4.5	4.0
3	18.0	18.0	9.5	9.5	3.0	3.0	2.5	2.0	2.0	2.0	4.5	4.0
4	18.0	17.5	9.5	9.5	3.0	3.0	2.0	2.0	2.0	2.0	5.5	4.5
5	17.5	17.5	10.0	9.5	3.0	3.0	2.0	1.0	2.0	2.0	6.0	5.0
6	17.5	17.0	10.0	10.0	3.0	2.0	1.0	1.0	2.0	2.0	8.5	6.0
7	17.0	17.0	10.0	10.0	2.0	2.0	1.0	0.5	2.0	2.0	10.0	8.5
8	17.0	16.5	10.0	9.5	2.0	1.5	0.5	0.5	2.0	2.0	10.5	9.5
9	16.5	16.0	9.5	9.0	1.5	1.0	0.5	0.5	3.0	1.5	10.5	9.5
10	16.0	16.0	9.0	8.5	1.0	1.0	0.5	0.5	4.0	2.0	9.5	9.5
11	16.0	16.0	8.5	8.0	1.0	1.0	0.5	0.5	4.0	3.5	10.0	9.5
12	16.5	16.0	8.0	7.0	1.0	0.5	2.5	2.0	3.5	3.5	10.0	10.0
13	16.0	15.5	7.5	6.5	1.0	0.5	3.0	2.0	3.5	3.0	10.5	10.0
14	15.5	15.5	6.5	6.0	0.5	0.5	2.5	2.5	3.0	2.5	10.5	10.5
15	15.5	15.0	6.0	6.0	0.5	0.5	3.5	2.5	2.5	2.0	10.5	10.5
16	15.0	14.5	6.0	5.5	0.5	0.5	3.0	3.0	3.5	2.0	10.5	10.0
17	14.5	14.0	5.5	5.0	0.5	0.5	3.0	1.5	4.0	3.5	10.0	10.0
18	14.0	13.5	5.0	4.5	0.5	0.5	2.5	2.0	3.5	3.5	10.0	10.0
19	14.0	13.0	4.5	3.5	0.5	0.5	2.5	2.0	3.5	2.5	10.0	9.0
20	13.0	11.5	3.5	3.5	0.5	0.5	2.5	1.5	3.0	2.0	9.0	8.0
21	11.5	11.0	3.5	3.5	0.5	0.5	3.0	2.0	3.0	2.0	8.0	6.5
22	11.0	11.0	3.5	3.5	0.5	0.5	3.5	2.5	3.5	3.0	6.5	6.5
23	11.0	11.0	3.5	3.0	0.5	0.5	2.5	1.5	3.5	2.0	6.5	6.5
24	11.0	10.5	3.0	3.0	0.5	0.5	1.5	1.5	3.5	1.5	6.5	6.0
25	10.5	10.0	3.0	3.0	1.0	0.5	2.0	1.5	3.0	3.0	6.0	6.0
26	10.5	9.5	3.0	3.0	1.0	1.0	1.5	1.5	3.0	2.5	6.0	6.0
27	9.5	9.5	3.0	3.0	1.0	1.0	2.0	1.5	4.0	3.0	6.5	6.0
28	9.5	9.5	3.0	3.0	1.0	1.0	2.0	1.5	4.5	3.0	6.5	6.5
29	9.5	9.5	3.0	3.0	1.5	1.0	2.5	1.5	---	---	7.5	6.5
30	9.5	9.5	3.0	3.0	2.0	1.5	2.0	2.0	---	---	8.0	7.5
31	9.5	9.5	---	---	3.0	2.0	2.0	1.5	---	---	8.0	8.0
MONTH	19.0	9.5	10.0	3.0	3.0	0.5	3.5	0.5	4.5	1.5	10.5	3.5

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible]

03324000 Little River near Huntington, Ind.

LOCATION.--Lat 40°54'14", long 85°24'22", in NE 1/4 NW 1/4 sec.9, T.28 N., R.10 E., Huntington County, on right bank on upstream side of highway bridge, 5 miles (8 km) east of Huntington.

DRAINAGE AREA.--263 sq mi (681 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: October 1943 to current year. Prior to January 1944 monthly discharge only, published in WSP 1305. Published as Little River at Huntington, January 1944 to September 1948, Little River near Huntington, October 1948 to September 1956, and Little Wabash River near Huntington, October 1956 to September 1961.

SEDIMENT DISCHARGE: October 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 728.10 ft (221.925 m) above mean sea level. Prior to Oct. 1, 1948, nonrecording gage 4 miles (6 km) downstream at datum 8.79 (2.679 m) lower and Oct. 1, 1948, to Sept. 5, 1950, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--30 years, 223 cfs (6.32 cu m/s), 11.51 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,660 cfs (75.3 cu m/s) Nov. 14, gage height, 13.52 ft (4.121 m); minimum daily, 18 cfs (0.51 cu m/s) Sept. 19-21, 23, 24.

Period of record: Maximum discharge, 5,990 cfs (170 cu m/s) Jan. 4, 1950; maximum gage height, 18.43 ft (5.617 m) Feb. 11, 1959; minimum daily discharge, 1.1 cfs (0.031 cu m/s) Oct. 8, 1946, site and datum then in use.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	392	304	183	1,180	188	82	648	101	101	102	32	37
2	218	1,430	161	483	1,350	105	688	101	79	78	28	31
3	143	1,620	146	304	1,490	245	455	115	72	269	25	26
4	272	841	133	864	674	323	341	93	129	530	23	24
5	775	409	132	562	415	400	275	81	365	235	22	22
6	385	273	1,020	281	310	465	229	76	705	118	22	21
7	227	330	1,090	192	249	328	195	74	518	83	20	20
8	160	1,490	442	150	220	273	168	182	233	66	20	20
9	119	876	279	140	169	213	148	268	148	56	20	22
10	91	466	221	130	146	580	169	143	114	59	20	20
11	86	629	179	120	130	1,850	140	108	94	61	20	20
12	480	444	206	110	120	2,090	216	91	88	45	157	19
13	402	448	1,550	112	115	1,190	605	81	115	38	74	19
14	228	2,540	1,130	106	115	915	324	75	83	35	46	20
15	149	2,400	470	103	134	1,410	226	75	68	36	60	19
16	136	1,780	265	92	115	693	227	70	65	33	46	20
17	141	889	230	89	115	1,280	505	66	64	27	34	20
18	111	500	200	95	110	1,500	323	60	59	24	27	19
19	95	358	192	132	114	1,430	733	69	50	25	56	18
20	84	543	329	120	133	1,280	584	81	46	33	676	18
21	79	517	435	87	162	953	336	64	43	44	479	18
22	90	357	483	486	138	780	797	56	40	39	171	19
23	379	282	401	869	131	594	1,080	61	38	48	88	18
24	436	238	456	381	103	479	457	60	44	46	75	18
25	260	211	565	234	91	817	275	58	47	40	75	21
26	194	255	434	259	93	1,650	202	57	142	36	56	21
27	151	343	344	330	76	821	161	56	560	39	45	20
28	133	303	283	419	82	406	135	75	313	32	36	26
29	233	235	347	403	-----	312	113	123	319	27	31	25
30	261	194	1,500	248	-----	303	107	240	176	26	29	24
31	189	-----	1,910	181	-----	292	-----	155	-----	28	27	-----
TOTAL	7,099	21,505	15,716	9,262	7,288	24,059	10,862	3,015	4,918	2,358	2,540	645
MEAN	229	717	507	299	260	776	362	97.3	164	76.1	81.9	21.5
MAX	775	2,540	1,910	1,180	1,490	2,090	1,080	268	705	530	676	37
MIN	79	194	132	87	76	82	107	56	38	24	20	18
CFSM	.87	2.73	1.93	1.14	.99	2.95	1.38	.37	.62	.29	.31	.08
IN.	1.00	3.04	2.22	1.31	1.03	3.40	1.54	.43	.70	.33	.36	.09

CAL YR 1972 TOTAL 106,770 MEAN 292 MAX 2,570 MIN 15 CFSM 1.11 IN 15.10
WTR YR 1973 TOTAL 109,267 MEAN 299 MAX 2,540 MIN 18 CFSM 1.14 IN 15.46

03324000 Little River near Huntington, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT MENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
NOV. 28...	1310	5.0	304	26	21
JAN. 03...	1450	2.0	266	260	19
31...	1150	2.0	164	27	12
MAR. 07...	1530	5.0	306	31	26
APR. 11...	1100	4.5	148	37	15
MAY 15...	1035	10.0	74	52	10
JUNE 21...	1245	24.0	43	135	16
JULY 19...	1155	--	24	76	4.9
AUG. 29...	1205	25.0	30	33	2.7

WABASH RIVER BASIN

03324200 Salamonie River at Portland, Ind.

LOCATION.—Lat 40°25'40", long 85°02'20", in NE 1/4 SE 1/4 sec.23, T.23 N., R.13 E., Jay County, on right bank at downstream side of county road bridge, 2.4 miles (3.9 km) downstream from Butternut Creek, 3.2 miles (5.1 km) west of Portland, and 3.7 miles (6.0 km) downstream from Little Salamonie River.

DRAINAGE AREA.—85.6 sq mi (221.7 sq km).

PERIOD OF RECORD.—September 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 877.59 ft (267.489 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1960, nonrecording gage at site 1.4 miles (2.3 km) upstream at datum 6.43 ft (1.960 m) higher.

AVERAGE DISCHARGE.—14 years, 70.5 cfs (1.997 cu m/s), 11.18 in/yr (284 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,650 cfs (75.0 cu m/s) Nov. 14, gage height, 14.80 ft (4.511 m); minimum daily, 0.72 cfs (0.02 cu m/s) Sept. 3.
Period of record: Maximum discharge, 3,460 cfs (98.0 cu m/s) Mar. 5, 1963, gage height, 16.96 ft (5.169 m); minimum daily, 0.4 cfs (0.01 cu m/s) Sept. 27, 1965.

REMARKS.—Records good. Natural flow partially affected by sewage effluent.

REVISIONS (WATER YEARS).—WSP 2109: Drainage. WRD Ind. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	94	52	101	94	12	287	37	36	18	2.9	2.4
2	77	1,980	45	54	416	14	118	41	25	12	2.9	.92
3	51	1,500	39	68	231	47	84	66	19	21	2.9	.72
4	184	177	41	554	101	88	194	36	30	27	2.4	1.8
5	341	96	198	139	73	274	267	24	1,080	13	1.2	2.1
6	106	67	1,780	55	59	139	101	20	1,950	10	1.8	2.1
7	67	361	676	35	47	127	66	19	814	8.0	2.9	2.1
8	47	1,260	107	30	44	127	55	43	122	5.6	2.6	2.1
9	34	251	74	25	34	240	52	99	64	5.0	3.1	1.6
10	26	117	58	23	28	883	75	63	39	5.0	3.1	1.9
11	29	90	50	21	22	1,330	63	68	29	4.4	3.1	2.1
12	84	69	162	19	18	604	167	33	24	3.6	231	1.6
13	79	345	936	18	16	128	329	24	23	3.4	65	2.3
14	49	2,470	175	17	18	659	96	37	18	3.4	456	5.3
15	35	836	80	15	35	772	60	66	13	2.9	622	2.1
16	29	146	62	14	30	167	48	33	12	2.1	76	1.3
17	28	92	50	13	27	1,240	48	24	17	2.6	28	1.3
18	22	66	40	16	24	474	59	19	12	2.6	13	2.1
19	20	59	32	22	22	422	69	150	9.0	2.9	8.0	1.8
20	17	227	88	20	24	191	79	150	9.0	5.6	19	2.4
21	16	136	116	16	24	123	61	54	7.4	18	21	1.9
22	17	85	145	155	22	96	773	35	5.0	14	8.6	1.9
23	22	68	131	326	21	73	1,070	29	5.0	7.7	5.6	2.1
24	22	55	148	75	15	62	238	25	4.2	7.7	7.0	1.4
25	20	49	161	47	12	330	99	23	3.9	19	5.3	2.3
26	20	138	119	51	12	799	60	73	9.2	30	3.9	2.1
27	18	202	83	75	12	314	44	120	131	16	2.9	2.1
28	20	158	58	223	11	120	35	59	104	6.7	2.6	2.9
29	23	80	68	222	-----	131	26	64	120	3.1	2.6	5.6
30	26	59	139	66	-----	193	33	136	36	2.9	2.3	3.1
31	24	-----	277	42	-----	241	-----	35	-----	3.1	2.1	-----
TOTAL	1,712	11,333	6,190	2,557	1,492	10,420	4,756	1,705	4,770.7	286.3	1,610.8	65.44
MEAN	55.2	378	200	82.5	53.3	336	159	55.0	159	9.24	52.0	2.18
MAX	341	2,470	1,780	554	416	1,330	1,070	150	1,950	30	622	5.6
MIN	16	49	32	13	11	12	26	19	3.9	2.1	1.2	.72
CFSM	.64	4.42	2.34	.96	.62	3.93	1.86	.64	1.86	.11	.61	.03
IN.	.74	4.93	2.69	1.11	.65	4.53	2.07	.74	2.07	.12	.70	.03

CAL YR 1972 TOTAL 49,796.80 MEAN 136 MAX 2,480 MIN 1.8 CFSM 1.59 IN 21.64
WTR YR 1973 TOTAL 46,898.24 MEAN 128 MAX 2,470 MIN .72 CFSM 1.50 IN 20.38

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	2030	14.56	2,560	03-15	0030	11.29	1,560
11-08	0600	11.74	1,680	03-17	1000	12.12	1,780
11-14	1130	14.80	2,650	04-22	2300	12.31	1,830
12-06	1500	13.68	2,260	06-06	1530	13.64	2,250
03-11	1700	12.87	2,000				

03324300 Salamonie River near Warren, Ind.

LOCATION.—Lat 40°42'45", long 85°27'13", in SE 1/4 SE 1/4 sec.12, T.26 N., R.9 E., Huntington County, on right downstream side of county road bridge, 1,700 ft (518 m) downstream from small right and left bank tributaries, 4,000 ft (1,219 m) upstream from abandoned concrete and stone dam, and 2.4 miles (3.9 km) northwest of Warren.

DRAINAGE AREA.—425 sq mi (1,101 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: March 1957 to current year.

SEDIMENT DISCHARGE: October 1963 to current year (partial-record station).

GAGE.—Water-stage recorder and concrete dam. Datum of gage is 784.65 ft (239.161 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 28, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—16 years, 378 cfs (10.70 cu m/s), 12.08 in/yr (307 mm/yr).

EXTREMES.—Current year: Maximum discharge, 5,410 cfs (153 cu m/s) Nov. 14, gage height, 12.01 ft (3.661 m); minimum daily, 27 cfs (0.76 cu m/s) July 17.

Period of record: Maximum discharge, 13,200 cfs (374 cu m/s) Nov. 10, 1959, gage height, 17.05 ft (5.197 m); minimum daily, 5.8 cfs (0.16 cu m/s) Sept. 19, 1959.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,690	201	297	1,180	312	96	1,970	177	146	158	48	60
2	681	3,060	262	502	2,120	99	1,210	173	98	98	38	54
3	398	4,060	233	357	2,010	139	636	172	80	73	34	50
4	378	3,590	215	1,550	927	305	488	192	87	75	31	50
5	879	3,090	225	1,630	524	507	797	147	999	149	32	48
6	799	858	2,470	545	391	928	668	125	2,710	76	31	47
7	399	548	3,140	321	310	481	381	115	3,280	53	31	45
8	277	1,920	3,220	232	271	540	294	129	3,080	43	32	43
9	205	2,370	1,280	184	222	444	250	232	1,470	38	34	45
10	156	1,410	452	151	174	930	253	247	322	36	37	42
11	163	634	335	145	143	4,020	279	204	204	49	42	41
12	450	460	422	135	130	3,650	321	193	545	36	52	41
13	487	735	2,940	125	125	2,710	1,780	138	699	30	111	40
14	319	4,720	3,030	111	129	1,950	1,090	116	287	30	305	47
15	214	4,850	1,620	108	140	3,280	463	115	156	29	1,730	46
16	169	4,350	539	106	150	2,760	385	190	115	28	1,630	48
17	147	2,690	295	110	140	2,460	1,650	139	107	27	433	50
18	129	781	300	124	135	3,130	959	110	108	28	207	45
19	109	526	266	156	141	3,360	1,780	111	89	30	132	39
20	98	819	429	157	133	2,460	1,030	478	69	37	717	42
21	97	1,130	698	137	142	1,300	610	321	60	50	1,110	43
22	99	701	748	594	144	898	1,070	170	53	139	349	43
23	182	484	701	1,540	139	639	2,460	133	49	126	176	45
24	192	382	732	886	121	493	2,530	116	45	83	251	56
25	151	327	820	385	108	1,160	1,070	104	43	63	402	57
26	132	417	719	353	104	3,210	402	146	232	146	211	49
27	120	803	522	404	98	3,040	280	144	628	174	127	44
28	121	762	376	564	96	1,690	215	178	523	94	90	43
29	143	535	442	992	-----	655	171	156	611	62	71	44
30	150	350	1,420	535	-----	1,160	156	140	326	49	65	46
31	144	-----	1,880	275	-----	991	-----	184	-----	53	73	-----
TOTAL	9,678	47,563	31,028	14,594	9,579	50,485	25,648	5,295	17,221	2,162	8,632	1,393
MEAN	312	1,585	1,001	471	342	1,629	855	171	574	69.7	278	46.4
MAX	1,690	4,850	3,220	1,630	2,120	4,020	2,530	478	3,280	174	1,730	60
MIN	97	201	215	106	96	96	156	104	43	27	31	39
CFSM	.73	3.73	2.36	1.11	.80	3.83	2.01	.40	1.35	.16	.65	.11
IN.	.85	4.16	2.72	1.28	.84	4.42	2.24	.46	1.51	.19	.76	.12

CAL YR 1972 TOTAL 234,113 MEAN 640 MAX 6,740 MIN 19 CFSM 1.51 IN 20.49
WTR YR 1973 TOTAL 223,278 MEAN 612 MAX 4,850 MIN 27 CFSM 1.44 IN 19.54

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0400	11.08	4,390	03-15	0700	10.22	3,440
11-14	2200	12.01	5,410	03-19	0500	10.35	3,580
12-06	2400	10.12	3,330	03-26	1400	10.15	3,360
12-13	1900	10.15	3,360	06-07	0300	10.18	3,400
03-11	2000	11.18	4,500				

WABASH RIVER BASIN

03324300 Salamonie River near Warren, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDIM- ENT (MG/L)	SUS- PENDE D SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV. 28...	1605	5.5	718	41	79	--	--	--	--	--	--
JAN. 03...	0925	2.5	324	35	31	--	--	--	--	--	--
31...	1600	2.0	260	53	37	--	--	--	--	--	--
MAR. 07...	0935	5.0	488	122	161	76	89	95	97	99	100
APR. 18...	1650	9.5	773	296	618	92	96	98	100	--	--
MAY 18...	1050	12.0	112	43	13	--	--	--	--	--	--
JUNE 21...	1500	24.5	89	113	27	--	--	--	--	--	--
JULY 19...	1335	--	30	38	3.1	--	--	--	--	--	--
AUG. 30...	1330	25.0	67	43	7.8	--	--	--	--	--	--

03324450 Salamonie Lake at Dora, Ind.

LOCATION.--Lat 40°48'25", long 85°40'38", SW 1/4 NW 1/4 sec.7, T.27 N., R.8 E., Wabash County, in discharge tower of reservoir on Salamonie River, 1.1 miles (1.8 km) northwest of Dora, and 3.4 miles (5.5 km) upstream from mouth.

DRAINAGE AREA.--553 sq mi (1,432 sq km).

PERIOD OF RECORD.--April 1967 to current year. Prior to September 1970, published as Salamonie "Reservoir".

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 136,220 acre-ft (168 cu hm) Apr. 3, elevation, 774.42 ft (236.043 m); minimum, 13,130 acre-ft (16.2 cu hm) Jan. 21, elevation, 730.03 ft (222.513 m).

Period of record: Maximum contents, 157,740 acre-ft (194 cu hm) Apr. 26, 1972, elevation, 778.43 ft (237.265 m); minimum, 10,000 acre-ft (12.3 cu hm) Mar. 11, 1969, elevation, 726.44 ft (221.419 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4.75 ft (1.45 m) wide and 16.0 ft (4.88 m) high, in semi-elliptical conduit through dam. Minimum design capacity is 13,100 acre-ft (16.2 cu hm), elevation, 730 ft (222.5 m). Seasonal pool capacity is 60,700 acre-ft (74.8 cu hm), elevation, 755 ft (230.1 m). Capacity at uncontrolled spillway elevation, 793 ft (241.7 m) is 263,600 acre-ft (325 cu hm). Reservoir is used for flood control and recreation. Reservoir put in operation on Apr. 17, 1967.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	761.67	82,000	-
Oct. 31.....	742.84	31,930	-50,070
Nov. 30.....	765.71	97,170	+65,240
Dec. 31.....	748.65	44,340	-52,830
Calendar year 1972.....	-	-	+27,850
Jan. 31.....	730.29	13,390	-30,950
Feb. 28.....	730.14	13,240	-150
Mar. 31.....	772.75	127,980	+114,740
Apr. 30.....	756.28	64,430	-63,550
May 31.....	755.05	60,840	-3,590
June 30.....	755.57	62,340	+1,500
July 31.....	755.16	61,150	-1,190
Aug. 31.....	755.15	61,120	-30
Sept. 30.....	751.72	51,830	-9,290
Water year 1973.....	-	-	-30,170

03324500 Salamonie River at Dora, Ind.

LOCATION.--Lat 40°48'42", long 85°41'02", in NE 1/4 NE 1/4 sec.12, T.27 N., R.7 E., Wabash County, on right bank 1.5 miles (2.4 km) northwest of Dora and 3 miles (5 km) upstream from mouth.

DRAINAGE AREA.--557 sq mi (1,443 sq km).

PERIOD OF RECORD.--November 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 673.96 ft (205.423 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1951, nonrecording gage at site 1.5 miles (2.4 km) upstream at datum 688.59 ft (209.882 m) above mean sea level (levels by Corps of Engineers) and Oct. 1, 1951, to Oct. 8, 1961, water-stage recorder located on left bank, 2,000 ft (610 m) upstream at datum 679.77 ft (207.194 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--49 years (1924 to current year), 501 cfs (14.19 cu m/s), 12.21 in/yr (310 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,750 cfs (135 cu m/s) Apr. 29, gage height, 9.32 ft (2.841 m); minimum daily, 21 cfs (0.59 cu m/s) Mar. 2.

Period of record: Maximum discharge, 16,500 cfs (467 cu m/s) May 18, 1943, gage height, 14.75 ft (4.496 m), from graph based on gage readings, site and datum then in use; minimum daily, 0.70 cfs (0.020 cu m/s) Oct. 30, 1968, result of abnormal regulation.

REMARKS.--Records good. Flow regulated by Salamonie Lake (See sta 03324450) about 0.5 mile (0.8 km) upstream.

REVISIONS (WATER YEARS).--WSP 1275: 1931(M), 1932, 1933(M), 1935-36(M), 1938-40(M), 1941-42, 1945, 1952. WSP 1335: 1934(M). WSP 1555: 1952, 1955-56(M), 1957. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	568	3,140	347	393	110	108	1,470	200	918	162	85
2	89	301	3,830	347	288	21	98	567	205	271	103	85
3	240	98	3,750	350	305	22	729	461	209	123	78	85
4	403	102	3,900	354	310	22	1,320	286	254	125	60	74
5	217	105	4,180	357	999	161	1,720	249	510	138	49	48
6	379	315	4,050	359	1,980	153	2,630	283	1,450	171	43	48
7	731	344	3,590	359	1,950	22	3,080	261	1,750	156	31	48
8	1,180	108	2,910	359	1,890	22	3,330	258	1,760	103	31	44
9	2,430	109	2,420	359	1,370	24	3,830	328	1,780	78	31	32
10	3,210	109	2,410	1,570	471	25	3,890	326	1,780	42	31	32
11	3,240	112	2,370	3,270	284	50	4,150	290	1,770	42	33	32
12	3,260	344	2,020	3,620	252	86	4,110	269	1,760	42	32	32
13	3,350	436	585	3,530	201	93	3,870	224	1,860	42	160	31
14	3,320	105	85	3,410	201	97	3,600	225	2,150	43	416	32
15	3,260	102	87	3,750	203	96	3,090	169	1,150	43	404	32
16	3,210	552	87	2,910	204	98	1,710	119	150	43	1,440	193
17	3,150	851	345	1,120	203	105	673	155	151	43	2,570	120
18	2,580	851	749	406	202	105	1,580	186	143	32	2,540	316
19	1,050	851	1,220	366	223	106	1,530	189	136	27	2,370	316
20	709	851	1,650	315	231	108	371	311	133	37	2,090	360
21	556	850	1,650	253	232	109	1,040	574	110	109	1,480	395
22	560	1,140	1,800	438	231	109	1,610	422	98	139	1,500	396
23	619	1,350	2,160	576	223	109	985	248	95	228	1,020	395
24	681	1,620	2,800	587	204	109	375	189	74	314	383	395
25	650	1,830	3,140	590	171	119	379	192	54	160	527	395
26	568	1,830	3,090	1,090	147	116	999	194	86	103	550	418
27	568	1,820	3,060	1,580	151	116	2,600	257	530	153	293	450
28	576	1,820	3,230	1,560	152	117	4,300	363	927	198	141	449
29	594	2,030	3,660	1,290	-----	117	4,670	281	1,160	198	55	446
30	516	2,360	2,730	1,070	-----	118	3,650	352	1,600	198	67	445
31	522	-----	979	658	-----	262	-----	312	-----	198	79	-----
TOTAL	42,507	23,864	71,677	37,150	13,671	2,927	66,027	10,010	24,035	4,517	18,769	6,229
MEAN	1,371	795	2,312	1,198	488	94.4	2,201	323	801	146	605	208
MAX	3,350	2,360	4,180	3,750	1,980	262	4,670	1,470	2,150	918	2,570	450
MIN	89	98	85	253	147	21	98	119	54	27	31	31
CAL YR 1972	TOTAL 296,083	MEAN 809	MAX 4,180	MIN 15								
WTR YR 1973	TOTAL 321,383	MEAN 881	MAX 4,670	MIN 21								

WABASH RIVER BASIN

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03325000 Wabash River at Wabash, Ind.

LOCATION.--Lat 40°47'25", long 85°49'13", in SE 1/4 NW 1/4 sec.14, T.27 N., R.6 E., Wabash County, on right bank on upstream side of Wabash Street bridge in Wabash, 7 miles (11 km) downstream from Salamonie River, and at mile 387.2 (623.0 km).

DRAINAGE AREA.--1,768 sq mi (4,579 sq km).

PERIOD OF RECORD.--August 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 642.66 ft (195.883 m) above mean sea level. Prior to Sept. 30, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years, 1,474 cfs (41.74 cu m/s), 11.32 in/yr (288 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,790 cfs (249 cu m/s) Nov. 14, gage height, 12.95 ft (3.947 m); minimum daily discharge, 114 cfs (3.23 cu m/s) Aug 11.

Period of record: Maximum discharge, 49,600 cfs (1,400 cu m/s) May 18, 1943; maximum gage height, 24.44 ft (7.499 m) Feb. 11, 1959 (ice jam); minimum daily discharge, 19 cfs (0.54 cu m/s) July 21, 1936.

Maximum stage known, 28.7 ft (8.748 m) Mar. 26, 1913, from floodmark, determined by Corps of Engineers, discharge, 90,000 cfs (2,550 cu m/s), from rating curve extended above 49,000 cfs (1,390 cu m/s).

REMARKS.--Records good. Flow partially regulated by Huntington Lake (See sta 03323450) and Salamonie Lake (See sta 03324450).

REVISIONS (WATER YEARS).--WSP 1275: 1931-37(M), 1938-39, 1940(M). WSP 1385: 1942. WSP 1505: 1955. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,820	1,530	4,690	4,150	2,020	737	5,730	2,240	758	2,280	465	307
2	3,810	3,870	5,370	3,140	4,000	660	4,280	999	657	1,130	344	337
3	4,150	3,720	4,770	2,740	4,880	811	4,130	894	615	696	289	424
4	4,190	3,460	4,640	3,890	3,770	1,080	4,610	1,130	917	986	196	446
5	4,580	3,650	4,960	3,310	3,850	1,270	4,440	763	2,010	956	150	401
6	3,910	3,620	6,580	2,690	4,880	1,850	4,750	686	3,470	777	166	317
7	4,000	5,070	6,810	2,450	4,980	2,030	5,180	603	4,070	664	147	261
8	3,690	6,520	5,580	2,340	4,500	1,940	5,040	793	4,080	427	147	249
9	3,730	5,780	4,680	2,250	3,290	1,740	5,020	1,270	4,100	370	143	228
10	3,940	4,860	4,620	3,020	1,580	2,030	5,000	918	4,510	299	132	224
11	3,990	4,890	4,540	4,700	1,060	5,150	4,620	854	4,430	305	114	266
12	4,210	4,840	4,680	4,980	1,010	5,790	5,160	1,030	4,340	293	442	273
13	4,620	5,040	6,450	4,200	977	4,800	6,170	636	3,990	238	574	270
14	4,390	7,810	4,340	4,190	1,050	4,500	5,930	699	3,310	224	1,170	238
15	4,240	4,940	3,190	4,240	1,080	5,290	5,480	717	2,000	218	2,700	342
16	4,210	5,140	3,400	4,030	1,030	4,280	4,870	521	536	212	2,720	784
17	4,200	5,190	4,480	2,070	903	6,030	4,090	359	524	208	4,350	376
18	3,880	5,160	4,770	1,350	838	5,710	3,560	465	650	164	4,320	393
19	2,280	5,360	4,620	1,290	917	5,550	4,950	520	608	117	4,040	392
20	1,460	5,550	5,130	1,230	1,110	6,150	3,810	697	477	137	2,940	416
21	1,340	5,620	5,180	1,120	1,240	5,820	3,910	932	396	264	4,510	484
22	1,290	5,190	5,180	1,960	1,020	5,500	3,850	1,170	363	429	3,000	628
23	1,560	5,390	5,030	3,400	994	5,490	4,530	948	355	453	2,430	662
24	1,960	5,360	5,040	3,310	1,050	5,280	3,420	494	339	993	1,220	659
25	1,810	5,490	5,780	2,210	859	6,440	3,570	473	321	746	680	611
26	1,600	5,430	5,600	2,510	797	6,430	3,740	446	367	641	1,010	617
27	1,310	5,430	5,330	3,280	694	4,560	4,670	524	1,640	288	910	623
28	1,320	5,210	4,910	3,450	744	5,030	4,740	1,180	2,430	453	578	612
29	1,400	5,050	5,260	3,240	-----	5,210	5,020	1,280	2,160	449	372	621
30	1,410	4,950	6,810	2,860	-----	5,010	4,530	1,830	2,750	489	325	605
31	1,360	-----	6,430	2,240	-----	5,160	-----	1,180	-----	565	313	-----
TOTAL	93,160	149,120	158,850	91,840	55,123	127,328	138,800	27,251	57,173	16,471	40,897	13,066
MEAN	3,005	4,971	5,124	2,963	1,969	4,107	4,627	879	1,906	531	1,319	436
MAX	4,620	7,810	6,810	4,980	4,980	6,440	6,170	2,240	4,510	2,280	4,510	784
MIN	1,290	1,530	3,190	1,120	694	660	3,420	359	321	117	114	224
CFSM	1.70	2.81	2.90	1.68	1.11	2.32	2.62	.50	1.08	.30	.75	.25
IN.	1.96	3.14	3.34	1.93	1.16	2.68	2.92	.57	1.20	.35	.86	.27

CAL YR 1972 TOTAL 930,197 MEAN 2,542 MAX 8,940 MIN 73 CFSM 1.44 IN 19.57
WTR YR 1973 TOTAL 969,079 MEAN 2,655 MAX 7,810 MIN 114 CFSM 1.50 IN 20.39

03325500 Mississinewa River near Ridgeville, Ind.

LOCATION.--Lat 40°16'49", long 84°59'44", in SE 1/4 SE 1/4 sec.7, T.21 N., R.14 E., Randolph County, on right bank 10 ft (3 m) downstream from highway bridge, 0.8 mile (1.3 km) downstream from Mud Creek, and 2 miles (3 km) east of Ridgeville.

DRAINAGE AREA.--133 sq mi (344 sq km).

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 965.28 ft (294.217 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 5, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 200 cfs (5.664 cu m/s), 12.66 in/yr (322 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,740 cfs (106 cu m/s) Nov. 2, gage height, 12.38 ft (3.767 m); minimum daily, 7.0 cfs (0.20 cu m/s) Sept. 16, 17, 24.

Period of record: Maximum discharge, 13,900 cfs (394 cu m/s) June 10, 1958, gage height, 16.25 ft (4.953 m); from rating curve extended above 5,000 cfs (142 cu m/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.1 cfs (0.003 cu m/s) Oct. 24, 1946.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1235: 1948. WSP 1335: 1953. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	404	320	98	241	205	34	409	69	28	69	13	12
2	171	2,980	83	123	688	38	218	65	25	50	13	11
3	106	1,810	71	151	477	68	151	64	24	41	12	9.7
4	338	538	67	769	209	106	374	53	126	37	12	9.7
5	398	243	110	246	154	356	462	46	1,640	36	11	10
6	171	159	1,900	121	120	200	196	43	1,890	29	10	10
7	113	800	865	85	95	245	135	42	772	26	11	9.7
8	83	1,690	292	74	90	207	117	88	266	23	10	9.7
9	58	590	232	65	69	376	108	90	141	21	10	9.3
10	46	293	201	62	59	1,520	141	278	92	21	10	8.9
11	50	212	130	56	52	2,000	105	354	70	21	11	8.5
12	159	153	132	52	48	1,060	288	120	59	18	230	8.1
13	114	623	1,010	49	45	374	420	76	56	16	68	8.1
14	78	2,940	330	46	47	561	164	59	43	16	620	9.7
15	57	1,350	180	43	108	670	114	52	38	15	883	9.3
16	54	425	111	41	84	268	98	49	38	14	192	7.0
17	49	222	80	40	60	1,430	183	44	44	13	73	7.0
18	38	153	72	43	50	705	136	39	39	13	41	7.7
19	36	165	70	51	54	574	142	80	31	12	28	7.4
20	31	528	212	43	56	356	176	91	33	14	82	7.4
21	32	229	266	40	53	214	123	54	28	38	43	7.4
22	32	152	304	314	49	159	997	47	25	32	27	7.4
23	36	116	260	396	48	126	1,210	46	23	20	22	8.5
24	34	93	280	121	39	108	453	42	24	18	23	7.0
25	29	87	256	86	36	374	225	40	21	23	21	7.4
26	29	138	198	92	37	1,100	139	39	29	23	17	7.7
27	28	198	138	136	35	559	105	36	1,100	21	15	7.7
28	30	231	106	381	34	236	84	36	431	17	14	8.5
29	30	134	112	343	-----	174	66	34	252	15	13	9.3
30	29	109	221	129	-----	246	69	38	109	13	13	8.9
31	30	-----	649	88	-----	372	-----	32	-----	13	12	-----
TOTAL	2,893	17,681	9,036	4,527	3,101	14,816	7,608	2,246	7,497	738	2,560	260.0
MEAN	93.3	589	291	146	111	478	254	72.5	250	23.8	82.6	8.67
MAX	404	2,980	1,900	769	688	2,000	1,210	354	1,890	69	883	12
MIN	28	87	67	40	34	34	66	32	21	12	10	7.0
CFSM	.70	4.43	2.19	1.10	.83	3.59	1.91	.55	1.88	.18	.62	.07
IN.	.81	4.95	2.53	1.27	.87	4.14	2.13	.63	2.10	.21	.72	.07

CAL YR 1972 TOTAL 73,915.4 MEAN 202 MAX 2,980 MIN 7.4 CFSM 1.52 IN 20.67
WTR YR 1973 TOTAL 72,963.0 MEAN 200 MAX 2,980 MIN 7.0 CFSM 1.50 IN 20.41

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1400	12.38	3,740	12-06	1400	11.35	2,640
11-08	0100	11.08	2,410	03-11	1500	11.48	2,750
11-14	0800	12.13	3,440	06-05	2100	11.32	2,620

03326070 Big Lick Creek near Hartford City, Ind.

LOCATION.—Lat 40°25'20", long 85°21'04", in SE 1/4 SE 1/4 sec.23, T.23 N., R.10 E., Blackford County, on right bank, 6 ft (2 m) downstream from bridge on County Road 100 East and 2.0 miles (3.2 km) southeast of Hartford City.

DRAINAGE AREA.—29.2 sq mi (75.6 sq km).

PERIOD OF RECORD.—July 1971 to current year.

GAGE.—Water-stage recorder. Datum of gage is 865.00 ft (263.652 m) above mean sea level.

EXTREMES.—Current year: Maximum discharge, 667 cfs (18.9 cu m/s) Nov. 14, gage height, 13.62 ft (4.151 m); minimum daily, 1.9 cfs (0.054 cu m/s) Sept. 20.

Period of record: Maximum discharge, 670 cfs (19.0 cu m/s) Apr. 20, 1972, gage height, 13.65 ft (4.161 m); minimum daily, 0.38 cfs (0.011 cu m/s) Sept. 25, 1971.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	41	18	40	53	6.2	99	14	7.8	6.7	3.4	4.3
2	32	429	16	22	169	7.6	53	16	7.4	6.1	3.1	3.8
3	22	193	15	39	80	18	41	18	7.8	6.1	3.1	3.7
4	32	71	15	148	42	26	43	12	41	6.6	2.8	3.1
5	41	44	28	43	31	65	41	9.2	323	6.2	2.6	3.2
6	24	30	408	21	22	35	36	8.0	427	5.8	2.5	3.0
7	18	54	93	15	17	50	31	7.2	116	5.5	2.6	2.6
8	15	172	51	12	16	39	27	13	53	5.0	2.5	2.6
9	12	60	33	11	12	74	24	27	32	4.8	2.6	3.2
10	10	37	23	9.8	9.6	138	29	17	21	5.2	3.1	2.8
11	17	30	18	8.8	8.6	289	26	14	15	5.5	3.1	2.5
12	30	23	137	8.0	8.0	96	50	10	17	4.0	9.2	2.3
13	17	140	346	7.6	7.6	48	90	9.2	22	4.8	2.3	2.5
14	14	542	88	7.2	8.8	156	52	9.0	13	4.8	127	5.9
15	12	148	45	6.8	16	134	30	13	10	5.0	125	4.4
16	12	71	27	6.4	10	56	21	11	9.4	5.0	28	2.8
17	12	50	20	6.0	9.4	224	22	9.4	16	5.0	14	2.5
18	9.8	35	16	8.0	8.8	150	24	8.8	11	5.2	9.0	2.1
19	10	30	13	11	9.2	138	27	43	8.0	4.8	7.0	2.0
20	10	70	57	9.4	9.8	98	29	27	7.2	7.0	111	1.9
21	11	51	46	9.0	10	62	26	14	6.6	33	42	2.0
22	12	33	44	63	9.4	50	90	11	6.2	15	16	2.1
23	12	25	38	79	8.2	36	250	11	6.0	9.4	9.4	3.6
24	12	20	44	26	6.8	28	110	10	6.0	9.2	35	2.2
25	12	20	44	19	6.6	134	49	9.6	5.8	10	21	2.3
26	11	43	37	21	6.8	316	21	9.4	6.2	7.6	11	2.3
27	11	51	25	26	6.4	116	17	9.4	14	6.2	7.4	2.8
28	12	42	22	55	6.2	57	14	9.8	15	4.6	6.0	2.5
29	13	41	27	48	-----	97	12	9.6	16	3.7	5.2	3.2
30	12	21	83	21	-----	110	13	9.2	9.0	3.7	4.8	5.0
31	12	-----	98	16	-----	122	-----	8.6	-----	3.7	4.6	-----
TOTAL	539.8	2,617	1,975	823.0	608.2	2,975.8	1,397	407.4	1,255.4	215.2	626.3	89.2
MEAN	17.4	87.2	63.7	26.5	21.7	96.0	46.6	13.1	41.8	6.94	20.2	2.97
MAX	60	542	408	148	169	316	250	43	427	33	127	5.9
MIN	9.8	20	13	6.0	6.2	6.2	12	7.2	5.8	3.7	2.3	1.9
CFSM	.60	2.99	2.18	.91	.74	3.29	1.60	.45	1.43	.24	.69	.10
IN.	.69	3.33	2.52	1.05	.77	3.79	1.78	.52	1.60	.27	.80	.11

CAL YR 1972 TOTAL 15,303.6 MEAN 41.8 MAX 542 MIN 1.2 CFSM 1.43 IN 19.50
WTR YR 1973 TOTAL 13,529.3 MEAN 37.1 MAX 542 MIN 1.9 CFSM 1.27 IN 17.24

PEAK DISCHARGE (BASE, 275 CFS)

NOTE.—No gage-height record Apr. 6 to May 9.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0915	12.53	558	03-11	1200	10.63	382	04-23	unknown	unknown	a350
11-14	0300	13.62	667	03-14	1915	9.92	323	06-05	2300	12.12	517
12-06	0730	12.50	555	03-17	0700	9.55	293	08-14	2200	9.33	275
12-13	0230	12.12	517	03-26	1330	11.05	420				

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WABASH RIVER BASIN

03326500 Mississinewa River at Marion, Ind.

LOCATION.--Lat 40°34'34", long 85°39'34", in SE 1/4 NE 1/4 sec.31, T.25 N., R.8 E., Grant County, on left bank 12 ft (4 m) downstream from Highland Avenue bridge in Marion, 1 mile (2 km) upstream from Hummels Creek, and 4 miles (6 km) downstream from Lugar Creek.

DRAINAGE AREA.--682 sq mi (1,766 sq km).

PERIOD OF RECORD.--September 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 774.56 ft (236.086 m) above mean sea level. Prior to Dec. 9, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years, 628 cfs (17.78 cu m/s), 12.50 in/yr (318 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,930 cfs (253 cu m/s) Nov. 14, gage height, 10.10 ft (3.078 m); minimum daily, 12 cfs (0.34 cu m/s) Sept. 19.

Period of record: Maximum discharge, 25,000 cfs (708 cu m/s) Mar. 21, 1927, gage height, 17.40 ft (5.305 m) from graph based on gage readings, from rating curve extended above 18,000 cfs (510 cu m/s); minimum daily, 3.4 cfs (0.096 cu m/s) Oct. 25, 1968. Flood in March 1913 reached a stage of 19.20 ft (5.852 m) from information by Indiana Flood Control and Water Resources Commission.

REMARKS.--Records good. Flow periodically regulated by dam above station.

REVISIONS (WATER YEARS).--WSP 1335: 1927(M). WSP 1385: 1948. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,840	292	669	1,980	676	218	2,600	462	302	462	194	129
2	2,090	4,170	592	1,280	2,120	222	2,150	438	250	310	155	123
3	1,190	6,780	515	886	2,660	254	1,410	438	218	246	133	114
4	921	6,780	474	1,980	1,930	387	1,140	426	288	214	123	108
5	1,280	3,200	494	2,300	1,210	655	1,310	365	2,760	194	114	103
6	1,480	1,350	3,150	1,360	921	1,140	1,520	335	5,930	183	111	100
7	1,020	1,130	5,260	718	739	942	984	325	7,670	172	108	97
8	725	2,450	3,710	508	634	865	767	360	5,120	158	100	91
9	543	3,430	1,500	409	529	893	683	426	1,660	149	100	91
10	753	2,680	1,010	325	432	2,310	648	494	803	139	100	94
11	392	1,390	823	315	350	5,360	662	606	655	133	117	91
12	557	1,020	977	300	315	5,580	746	921	921	129	123	89
13	676	1,240	3,960	302	320	3,940	1,260	536	1,950	123	120	86
14	676	7,770	3,550	288	320	2,640	1,350	398	970	120	1,220	133
15	480	8,510	1,960	279	350	4,040	837	355	585	114	3,370	108
16	382	6,110	1,000	262	370	2,880	767	345	444	108	2,680	108
17	335	2,400	590	262	350	3,040	1,820	315	494	108	1,520	270
18	297	1,350	571	270	345	4,320	1,320	288	480	103	669	39
19	262	1,130	634	325	370	3,930	1,790	330	355	100	409	12
20	230	1,310	879	330	345	3,010	1,490	620	292	136	426	64
21	214	1,850	1,160	325	465	2,050	1,190	599	250	750	1,800	81
22	222	1,330	1,230	977	320	1,540	1,740	420	226	732	949	84
23	262	984	1,190	1,820	162	1,200	3,940	355	206	376	438	108
24	279	788	1,160	1,650	274	984	3,850	325	190	480	620	100
25	250	690	1,260	879	254	1,690	2,120	315	176	662	718	89
26	230	732	1,210	676	242	4,340	1,170	315	409	823	426	84
27	218	1,000	984	690	230	4,900	837	302	382	627	284	81
28	218	1,150	788	914	222	2,800	655	325	1,080	325	206	84
29	230	1,050	704	1,460	-----	1,590	522	284	1,470	214	172	78
30	230	788	1,380	1,330	-----	1,700	480	297	760	326	155	76
31	222	-----	2,220	746	-----	1,730	-----	306	-----	392	145	-----
TOTAL	19,704	74,854	45,604	26,146	17,455	71,150	41,758	12,626	37,296	9,108	17,805	2,915
MEAN	636	2,495	1,471	843	623	2,295	1,392	407	1,243	294	574	97.2
MAX	2,840	8,510	5,260	2,300	2,660	5,580	3,940	921	7,670	823	3,370	270
MIN	214	292	474	262	162	218	480	284	176	100	100	12
CFSM	.93	3.66	2.16	1.24	.91	3.37	2.04	.60	1.82	.43	.84	.14
IN.	1.07	4.08	2.49	1.43	.95	3.88	2.28	.69	2.03	.50	.97	.16

CAL YR 1972 TOTAL 367,210 MEAN 1,003 MAX 9,000 MIN 33 CFSM 1.47 IN 20.03
WTR YR 1973 TOTAL 376,421 MEAN 1,031 MAX 8,510 MIN 12 CFSM 1.51 IN 20.53

PEAK DISCHARGE (BASE, 5,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-04	0600	9.16	7,360	03-11	1800	8.63	6,540
11-14	1900	10.10	8,930	06-07	2000	9.63	8,120

03326950 Mississinewa Lake at Peoria, Ind.

LOCATION.--Lat 40°42'52", long 85°57'27", in NW 1/4 SW 1/4 sec.10, T.26 N., R.5 E., Miami County, in discharge tower of reservoir on Mississinewa River at Peoria, 6.8 miles (10.9 km) southeast of Peru, and 7.3 miles (11.7 km) above mouth.

DRAINAGE AREA.--807 sq mi (2,090 sq km).

PERIOD OF RECORD.--April 1968 to current year. Prior to September 1970, published as Mississinewa "Reservoir".

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 171,990 acre-ft (212 cu hm) Apr. 3, elevation, 757.73 ft (230.956 m); minimum, 23,190 acre-ft (28.6 cu hm) Feb. 24, elevation, 711.92 ft (216.993 m).

Period of record: Maximum contents, 171,990 acre-ft (212 cu hm) Apr. 3, 1973, elevation, 757.73 ft (230.956 m); minimum, 22,940 acre-ft (28.3 cu hm) Jan. 13, 1969, elevation, 711.73 ft (216.935 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4.75 ft (1.45 m) wide and 16.0 ft (4.88 m) high, in semi-elliptical conduit through dam. Minimum design capacity is 23,300 acre-ft (28.7 cu hm), elevation, 712 ft (217.0 m). Seasonal pool capacity is 75,200 acre-ft (92.7 cu hm), elevation, 737 ft (224.6 m). Capacity at uncontrolled spillway elevation, 779 ft (237.4 m) is 368,400 acre-ft (454 cu hm). Reservoir is used for flood control and recreation. Reservoir put in operation on April 23, 1968.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	738.06	78,630	-
Oct. 31.....	724.52	43,610	-35,020
Nov. 30.....	720.75	36,500	-7,110
Dec. 31.....	717.70	31,410	-5,090
Calendar year 1972.....	-	-	+4,050
Jan. 31.....	712.48	23,910	-7,500
Feb. 28.....	712.02	23,320	-590
Mar. 31.....	755.93	160,890	+137,570
Apr. 30.....	749.42	125,330	-35,560
May 31.....	737.12	75,570	-49,760
June 30.....	737.50	76,790	+1,220
July 31.....	737.37	76,370	-420
Aug. 31.....	737.19	75,750	-580
Sept. 30.....	734.70	68,200	-7,590
Water year 1973.....	-	-	-10,430

03327000 Mississinewa River at Peoria, Ind.

LOCATION.--Lat 40°43'24", long 85°57'27", in SW 1/4 SW 1/4 sec.3, T.26 N., R.5 E., Miami County, on right bank at Peoria, 3,000 ft (914 m) downstream from flood control dam, 6.7 miles (10.8 km) upstream from mouth, and 6.5 miles (10.4 km) southeast of Peru.

DRAINAGE AREA.--808 sq mi (2,092 sq km).

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 660.00 ft (201.168 m) above mean sea level. Prior to Oct. 7, 1954, nonrecording gage and crest-stage gage on highway bridge 2,500 ft (762 m) upstream, and Oct. 7, 1954, to Sept. 30, 1962, water-stage recorder on right bank at site 2,500 ft (762 m) upstream at same datum.

AVERAGE DISCHARGE.--21 years, 687 cfs (19.46 cu m/s), 11.41 in/yr (290 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,880 cfs (195 cu m/s) May 3, gage height, 9.80 ft (2.987 m); minimum daily, 69 cfs (1.95 cu m/s) Mar. 3.

Period of record: Maximum discharge, 28,000 cfs (793 cu m/s) June 11, 1958, gage height, 19.26 ft (5.870 m), site then in use; minimum daily, 6.2 cfs (0.18 cu m/s) Oct. 3, 1969.

REMARKS.--Records good. Flow regulated by Mississinewa Lake (See sta 03326950) since April 1968.

REVISIONS (WATER YEARS).--WSP 1335: 1953. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	827	663	3,160	110	917	187	779	4,430	359	867	639	156
2	836	1,110	1,170	115	822	107	125	4,380	359	503	371	156
3	2,230	131	1,160	121	845	69	1,170	5,840	327	375	187	156
4	3,670	140	1,150	121	863	70	1,960	5,200	292	228	156	158
5	3,630	1,740	1,140	123	1,230	117	1,960	4,150	320	187	123	158
6	3,600	3,860	1,150	127	2,030	118	1,950	3,420	355	222	121	151
7	3,550	4,430	1,190	129	2,260	125	1,950	1,500	1,140	244	125	136
8	3,480	2,750	1,240	127	1,980	123	1,950	479	1,870	244	125	127
9	1,880	822	1,260	127	1,410	125	1,950	822	3,160	211	125	123
10	849	831	1,520	129	691	133	2,460	800	3,980	165	125	123
11	858	1,570	1,860	129	435	419	3,590	555	3,930	154	125	117
12	1,060	3,090	1,520	579	399	809	4,150	635	3,870	156	127	105
13	1,110	2,690	507	1,230	399	827	4,100	691	3,820	154	127	105
14	955	367	115	1,580	403	840	2,320	639	3,760	125	399	134
15	840	133	117	2,720	403	849	2,680	487	3,140	86	515	154
16	763	1,740	1,540	4,270	403	863	4,030	355	1,670	85	2,080	121
17	703	3,190	3,480	4,060	403	511	2,380	306	899	86	3,420	192
18	687	3,980	3,400	2,480	403	129	1,920	310	595	86	3,380	367
19	663	4,510	3,940	1,350	403	129	2,890	423	503	91	2,620	375
20	631	4,450	3,520	1,050	439	138	1,110	487	407	117	1,730	495
21	623	4,410	2,770	559	455	140	1,110	551	324	403	1,720	487
22	659	4,370	2,720	559	427	142	1,110	595	228	635	1,720	355
23	727	4,310	2,660	571	427	144	727	519	187	683	1,080	355
24	759	4,880	2,600	583	320	271	411	399	187	687	595	355
25	707	5,360	2,540	1,320	271	399	415	317	187	547	623	355
26	635	5,240	2,020	1,670	282	403	415	320	189	627	623	355
27	615	5,100	1,330	1,640	282	403	1,910	324	495	707	471	355
28	611	4,960	1,030	1,510	282	407	3,940	324	881	555	275	355
29	611	4,810	822	1,320	-----	1,100	4,530	567	1,240	391	200	359
30	639	4,780	836	1,320	-----	1,530	4,490	647	1,350	355	158	355
31	667	-----	345	1,170	-----	1,530	-----	439	-----	571	158	-----
TOTAL	40,075	90,417	53,812	32,899	19,884	13,157	64,482	40,911	40,024	10,547	24,243	7,295
MEAN	1,293	3,014	1,736	1,061	710	424	2,149	1,320	1,334	340	782	243
MAX	3,670	5,360	3,940	4,270	2,260	1,530	4,530	5,840	3,980	867	3,420	495
MIN	611	131	115	110	271	69	125	306	187	85	121	105
CAL YR 1972	TOTAL 437,746		MEAN 1,196		MAX 5,740		MIN 20					
WTR YR 1973	TOTAL 437,746		MEAN 1,199		MAX 5,840		MIN 69					

03327500 Wabash River at Peru, Ind.

LOCATION.—Lat 40°44'35", long 86°05'45", in SE 1/4 NE 1/4 sec.32, T.27 N., R.4 E., Miami County, on right bank at upstream side of bridge on U.S. Highway 31, 0.5 mile (0.8 km) southwest of Peru, 4.3 miles (6.9 km) downstream from Mississinewa River, and at mile 370.5 (596.1 km).

DRAINAGE AREA.—2,686 sq mi (6,956 sq km).

PERIOD OF RECORD.—August 1943 to current year.

GAGE.—Water-stage recorder. Datum of gage is 617.94 ft (188.348 m) above mean sea level (levels by Corps of Engineers). Prior to June 20, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—30 years, 2,334 cfs (66.10 cu m/s), 11.80 in/yr (300 mm/yr).

EXTREMES.—Current year: Maximum discharge, 10,500 cfs (297 cu m/s) Nov. 25, gage height, 10.22 ft (3.115 m); minimum daily, 230 cfs (6.51 cu m/s) Aug. 13.

Period of record: Maximum discharge, 68,000 cfs (1,930 cu m/s) May 18, 1943, gage height, 24.46 ft (7.455 m), from floodmark; minimum daily, 72 cfs (2.04 cu m/s) Oct. 5, 1946.

Flood of Mar. 26, 1913, reached a stage of 28.1 ft (8.56 m), discharge, 115,000 cfs (3,260 cu m/s), from rating curve extended above 63,000 cfs (1,780 cu m/s).

REMARKS.—Records good. Flow regulated by Huntington Lake (See sta 03323450), Salamonie Lake (See sta 03324450), and Mississinewa Lake (See sta 03326950).

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,970	2,170	8,200	4,690	3,260	1,160	6,920	7,050	1,520	3,660	1,610	514
2	4,670	4,700	6,260	3,490	4,400	910	4,590	5,520	1,310	2,040	1,440	573
3	5,810	4,120	5,850	2,940	5,810	942	4,500	5,940	1,250	1,330	771	509
4	7,660	3,420	5,530	4,050	4,770	1,170	6,510	6,760	1,900	1,180	580	600
5	8,040	4,310	5,780	4,290	4,630	1,380	6,340	5,030	3,600	1,320	468	616
6	7,310	6,570	7,180	3,400	6,530	2,070	6,490	4,720	3,770	1,140	374	590
7	7,340	8,620	8,000	2,870	7,020	2,150	6,970	3,060	5,080	1,070	377	524
8	7,330	9,310	6,960	2,730	6,580	2,220	6,830	1,500	5,890	903	362	472
9	5,230	6,510	5,840	2,640	5,120	2,000	6,840	2,090	6,480	720	355	456
10	4,710	5,560	5,900	2,300	2,960	2,200	7,030	2,290	8,060	605	337	435
11	4,830	5,900	6,220	4,210	1,720	4,930	7,740	1,670	7,930	524	317	429
12	5,010	7,300	6,250	5,450	1,590	6,800	8,840	1,830	7,780	534	307	442
13	5,730	8,010	7,300	5,940	1,530	5,770	10,100	1,740	7,460	503	230	436
14	5,380	9,030	4,810	5,100	1,550	5,350	9,070	1,600	6,940	455	512	495
15	5,020	5,530	3,460	5,500	1,600	6,240	7,180	1,540	5,790	382	4,710	466
16	4,860	5,950	3,980	8,430	1,550	5,350	8,830	1,240	3,080	351	3,600	595
17	4,680	8,260	7,240	6,550	1,480	6,580	7,390	986	1,930	346	7,660	824
18	4,640	8,500	7,810	5,080	1,420	6,060	4,930	944	1,570	340	7,480	656
19	3,360	9,430	7,910	2,990	1,440	5,830	8,030	1,150	1,470	287	7,110	767
20	2,350	9,530	8,700	2,870	1,580	6,080	5,230	1,340	1,260	310	5,140	922
21	2,150	9,700	7,880	2,000	1,830	5,920	4,970	1,590	1,070	536	5,710	1,110
22	2,100	9,270	7,790	2,210	1,660	5,540	5,130	1,920	791	1,100	4,960	988
23	2,410	9,210	7,740	3,690	1,550	5,510	5,730	1,810	665	1,310	4,360	1,090
24	2,780	9,490	7,340	4,270	1,530	5,290	3,970	1,320	643	1,640	2,330	1,090
25	2,660	10,400	8,260	3,860	1,320	6,450	3,910	1,030	614	1,690	1,730	1,090
26	2,410	10,200	7,860	4,160	1,240	7,520	3,900	991	619	1,510	1,580	1,040
27	2,070	10,100	6,590	4,920	1,150	5,250	5,530	995	1,440	1,570	1,520	1,070
28	2,040	9,770	5,960	5,220	1,150	5,070	8,200	1,460	3,110	1,320	1,070	1,080
29	2,090	9,380	5,820	4,990	-----	5,860	9,310	2,000	3,390	1,050	816	1,120
30	2,140	9,350	7,720	4,600	-----	6,500	9,100	2,760	3,960	1,090	661	1,110
31	2,110	-----	7,780	3,920	-----	6,500	-----	2,160	-----	1,840	521	-----
TOTAL	133,890	229,600	209,920	129,360	77,970	140,602	200,110	76,036	100,372	32,656	68,998	22,109
MEAN	4,319	7,653	6,772	4,173	2,785	4,536	6,670	2,453	3,346	1,053	2,226	737
MAX	8,040	10,400	8,700	8,430	7,020	7,520	10,100	7,050	8,060	3,660	7,660	1,120
MIN	2,040	2,170	3,460	2,000	1,150	910	3,900	944	614	287	230	429
CFSM	1.61	2.85	2.52	1.55	1.04	1.69	2.48	.91	1.25	.39	.83	.27
IN.	1.85	3.18	2.91	1.79	1.08	1.95	2.77	1.05	1.39	.45	.96	.31

CAL YR 1972 TOTAL 1,421,623 MEAN 3.884 MAX 10,400 MIN 230 CFSM 1.45 IN 19.69
WTR YR 1973 TOTAL 1,421,623 MEAN 3.895 MAX 10,400 MIN 230 CFSM 1.45 IN 19.69

WABASH RIVER BASIN

03327520 Pipe Creek near Bunker Hill, Ind.

LOCATION.—Lat 40°40'06", long 86°05'44", in NE 1/4 SE 1/4 sec.29, T.26 N., R.4 E., Miami County, on right bank 150 ft (46 m) downstream from bridge on County Road 125 West, 0.5 mile (0.8 km) northeast of Bunker Hill.

DRAINAGE AREA.—159 sq mi (412 sq km).

PERIOD OF RECORD.—Occasional low-flow measurements, water years 1960-67, May 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 736.00 ft (224.333 m) above mean sea level.

AVERAGE DISCHARGE.—5 years, 135 cfs (3.823 cu m/s), 11.53 in/yr (293 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,210 cfs (62.6 cu m/s) Aug. 15, gage height, 11.42 ft (3.481 m); minimum daily, 17 cfs (0.48 cu m/s) July 19.

Period of record: Maximum discharge, 3,050 cfs (86.4 cu m/s) Jan. 30, 1969, gage height, 13.43 ft (4.093 m); minimum daily, 4.0 cfs (0.11 cu m/s) Aug. 31, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	732	109	130	832	148	43	621	90	68	64	460	39
2	568	857	112	573	672	45	624	87	55	54	156	35
3	373	1,130	101	368	798	54	483	85	51	49	102	33
4	296	882	95	648	614	74	363	77	209	46	78	30
5	250	613	92	558	455	136	403	69	658	46	61	28
6	213	462	440	280	275	337	284	64	666	41	50	27
7	166	412	613	165	193	229	208	62	644	37	43	25
8	137	568	338	128	160	170	167	76	425	34	37	25
9	109	460	189	107	127	163	136	88	196	31	33	23
10	89	313	136	100	112	568	133	90	135	30	30	23
11	103	258	105	90	95	1,090	112	75	109	28	33	22
12	180	204	144	80	84	1,030	115	66	95	26	34	21
13	171	730	905	70	78	638	230	61	89	24	30	20
14	136	1,550	787	64	75	654	179	56	79	23	813	23
15	107	1,420	565	62	80	895	141	51	71	21	2,000	27
16	96	910	310	57	66	669	126	49	72	20	1,880	33
17	89	629	135	58	60	891	233	48	83	20	1,350	27
18	75	523	165	63	57	899	269	47	89	18	611	25
19	65	398	121	86	61	856	243	48	79	17	345	23
20	59	481	208	73	60	760	250	56	67	24	192	22
21	57	480	401	67	57	660	198	49	59	71	136	22
22	68	330	397	263	54	603	360	45	54	95	101	23
23	106	221	260	584	56	520	673	45	49	71	80	23
24	167	176	210	294	52	369	512	45	46	72	79	23
25	133	161	309	151	48	477	262	43	44	120	101	23
26	109	175	272	153	47	1,020	170	41	95	540	85	19
27	95	176	200	184	44	967	133	39	247	330	65	18
28	86	161	163	269	44	654	111	47	160	116	53	18
29	83	143	194	415	-----	514	93	71	121	74	46	24
30	81	135	824	243	-----	389	90	134	80	119	41	22
31	81	-----	1,110	156	-----	326	-----	91	-----	365	43	-----
TOTAL	5,080	15,067	10,031	7,241	4,672	16,700	7,922	1,995	4,895	2,626	9,168	746
MEAN	164	502	324	234	167	539	264	64.4	163	84.7	296	24.9
MAX	732	1,550	1,110	832	798	1,090	673	134	666	540	2,000	39
MIN	57	109	92	57	44	43	90	39	44	17	30	18
CFSM	1.03	3.16	2.04	1.47	1.05	3.39	1.66	.41	1.03	.53	1.86	.16
IN.	1.19	3.53	2.35	1.69	1.09	3.91	1.85	.47	1.15	.61	2.14	.17

CAL YR 1972 TOTAL 73,671.8 MEAN 201 MAX 2,390 MIN 7.1 CFSM 1.26 IN 17.24
WTR YR 1973 TOTAL 86,143.0 MEAN 236 MAX 2,000 MIN 17 CFSM 1.48 IN 20.15

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-01	0100	7.18	841	03-11	2300	8.87	1,250
11-03	1600	8.65	1,180	03-17	2100	7.69	943
11-14	2300	9.94	1,620	03-26	1900	8.43	1,120
12-13	1300	7.86	977	06-04	2100	8.21	1,060
12-31	0800	8.49	1,140	08-15	0200	11.42	2,210
02-03	0100	7.28	861				

03328000 Eel River at North Manchester, Ind.

LOCATION.—Lat 40°59'55", long 85°45'50", in NE 1/4 NE 1/4 sec.5, T.29 N., R.7 E., Wabash County, on right bank 200 ft (61 m) downstream from Main Street bridge in North Manchester, and 1.2 miles (1.9 km) upstream from Pony Creek. Records include flow of Pony Creek.

DRAINAGE AREA.—417 sq mi (1,080 sq km), includes that of Pony Creek.

PERIOD OF RECORD.—October 1929 to current year. Prior to April 1930, monthly discharge only, published in WSP 1305. Gage-height records since October 1924 are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 738.00 ft (224.942 m) above mean sea level. Prior to July 24, 1953, nonrecording gage on downstream side of Second Street bridge, 700 ft (213 m) upstream at same datum.

AVERAGE DISCHARGE.—44 years, 350 cfs (9.912 cu m/s), 11.40 in/yr (290 mm/yr).

EXTREMES.—Current year: Maximum discharge, 3,120 cfs (88.4 cu m/s) Nov. 14, gage height, 9.03 ft (2.752 m); minimum daily, 80 cfs (2.27 cu m/s) Sept. 27.

Period of record: Maximum discharge, 7,940 cfs (225 cu m/s) Dec. 22, 1967, gage height, 13.55 ft (4.130 m); maximum gage height, 14.00 ft (4.267 m) Feb. 27, 1936; minimum daily discharge, 16 cfs (0.45 cu m/s) Oct. 19, 1956.

REMARKS.—Records good. Diurnal fluctuation caused by grist mill above station.

REVISIONS (WATER YEARS).—WSP 1275: 1930-37, 1939, 1940(M), 1942, 1948. WSP 1909: 1957. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	790	412	372	2,200	334	224	1,220	341	299	226	1,010	161
2	500	1,320	356	1,550	1,010	280	1,140	354	241	193	590	152
3	365	1,700	340	869	1,300	458	843	367	214	240	341	141
4	332	1,160	323	1,500	834	614	687	338	529	770	240	132
5	480	718	313	1,200	629	598	609	292	2,140	604	194	127
6	503	526	872	718	527	721	509	266	1,750	355	168	121
7	384	557	950	514	448	664	438	252	1,850	257	153	116
8	317	1,750	579	408	401	746	393	300	1,350	212	141	111
9	265	1,500	441	349	348	516	363	340	751	187	143	109
10	231	970	384	305	314	591	398	299	506	174	182	107
11	233	1,020	327	280	281	1,570	375	309	382	210	170	106
12	739	909	337	260	260	2,100	400	281	479	194	760	103
13	982	771	1,490	250	237	1,620	706	246	591	162	409	100
14	617	2,770	1,340	400	250	1,520	519	229	366	149	252	114
15	416	2,720	772	297	314	2,190	407	219	297	142	214	104
16	359	2,290	514	219	280	1,680	386	208	284	131	178	98
17	331	1,810	450	221	270	1,770	593	200	277	126	155	95
18	286	1,110	380	250	260	1,900	499	193	253	121	148	97
19	257	803	406	373	243	1,860	814	192	223	117	276	94
20	237	813	364	360	275	1,820	823	195	205	122	741	91
21	227	863	503	279	320	1,580	612	185	189	128	1,350	88
22	293	707	670	903	287	1,300	1,210	177	176	159	1,180	88
23	952	596	647	1,520	269	1,060	2,120	183	165	165	654	85
24	874	507	636	877	242	900	1,680	185	225	135	399	84
25	593	451	866	549	231	1,020	1,000	179	345	142	320	83
26	452	491	749	482	236	1,890	653	179	270	134	262	82
27	374	534	621	488	217	1,350	508	177	302	126	221	80
28	336	503	520	584	214	842	412	250	310	118	196	83
29	437	432	520	538	-----	676	353	331	304	112	175	122
30	494	387	1,670	401	-----	673	328	325	300	117	190	106
31	401	-----	2,540	342	-----	643	-----	356	-----	757	174	-----
TOTAL	14,057	31,100	21,252	19,486	10,831	35,376	20,998	7,948	15,573	6,785	11,586	3,180
MEAN	453	1,037	686	629	387	1,141	700	256	519	219	374	106
MAX	982	2,770	2,540	2,200	1,300	2,190	2,120	367	2,140	770	1,350	161
MIN	227	387	313	219	214	224	328	177	165	112	141	80
CFSM	1.09	2.49	1.65	1.51	.93	2.74	1.68	.61	1.24	.53	.90	.25
IN.	1.25	2.77	1.90	1.74	.97	3.16	1.87	.71	1.39	.61	1.03	.28

CAL YR 1972 TOTAL 162,152 MEAN 443 MAX 2,770 MIN 71 CFSM 1.06 IN 14.47
WTR YR 1973 TOTAL 198,172 MEAN 543 MAX 2,770 MIN 80 CFSM 1.30 IN 17.68

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1700	9.03	3,120	03-15	0200	7.70	2,450
12-31	1400	8.07	2,640	04-23	0300	7.30	2,250
03-11	2200	7.58	2,390	06-05	0500	7.58	2,390

WABASH RIVER BASIN

03328430 Weesau Creek near Deedsville, Ind.

LOCATION.--Lat 40°54'34", long 86°07'36", in NW 1/4 NW 1/4 sec.6, T.28 N., R.4 E., Miami County, on left bank 100 ft (30 m) downstream from bridge on County Road 1000 North, 1.5 miles (2.4 km) west of Deedsville.

DRAINAGE AREA.--8.87 sq mi (22.97 sq km).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 785.00 ft (239.268 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 114 cfs (3.23 cu m/s) Dec. 31, gage height, 4.08 ft (1.244 m); minimum daily, 0.84 cfs (0.024 cu m/s) Sept. 13.

Period of record: Maximum discharge, 283 cfs (8.01 cu m/s) Feb. 4, 1971, gage height, 5.83 ft (1.777 m); minimum daily, 0.84 cfs (0.024 cu m/s) Sept. 13, 1973.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	11	12	49	17	7.5	41	11	7.9	3.9	4.0	1.1
2	13	48	11	29	57	8.3	29	11	7.2	3.5	2.5	1.0
3	9.4	36	11	25	44	12	25	10	7.3	3.4	1.8	1.0
4	9.3	19	11	51	27	14	22	9.7	7.5	3.5	1.6	.95
5	12	14	10	27	21	29	19	9.3	16	3.2	1.4	.95
6	10	12	24	17	18	31	16	9.1	25	2.8	1.4	.95
7	8.5	17	16	13	15	24	15	9.1	20	2.5	1.3	.90
8	7.4	37	12	12	14	20	13	11	11	2.2	1.3	.90
9	6.4	22	11	10	12	16	14	10	8.1	2.2	1.3	.90
10	5.7	16	10	9.6	11	16	16	9.7	6.9	2.0	1.3	.95
11	8.4	18	8.8	8.8	10	55	14	9.1	6.2	1.8	1.4	.90
12	15	14	14	8.1	9.3	42	21	8.8	6.9	1.6	1.4	.90
13	12	27	53	8.0	9.0	24	41	8.5	9.9	1.6	1.3	.84
14	9.0	95	30	8.0	9.4	47	27	8.4	7.3	1.6	4.0	1.1
15	7.5	56	17	8.0	10	48	19	8.3	7.2	1.6	4.9	1.0
16	7.4	34	13	8.2	8.8	28	39	7.9	7.1	1.5	2.5	.95
17	6.8	23	11	8.9	8.9	48	72	7.6	12	1.4	1.6	1.0
18	6.1	18	10	11	8.4	44	39	7.4	9.5	1.4	1.4	1.0
19	5.7	16	9.9	21	8.7	40	42	7.9	7.3	1.4	1.4	.95
20	5.5	21	12	14	9.7	37	29	7.6	6.2	1.6	1.4	1.1
21	5.5	22	15	13	9.9	30	31	7.2	5.5	1.6	1.3	1.1
22	17	17	19	42	9.1	27	51	7.2	5.1	1.6	1.2	1.1
23	52	14	17	40	8.5	23	42	7.4	4.8	1.6	1.2	1.1
24	29	13	18	22	7.9	20	24	7.3	4.5	2.5	1.4	1.1
25	16	12	23	17	7.9	35	18	7.2	4.0	2.0	1.3	1.2
26	12	15	18	16	7.7	51	14	6.9	3.8	2.0	1.2	1.1
27	9.0	15	14	17	7.4	29	13	7.2	3.9	1.6	1.2	1.2
28	7.9	15	13	21	7.3	21	12	8.5	6.4	1.5	1.1	1.4
29	9.7	13	18	17	-----	19	11	8.9	5.8	1.4	1.1	2.0
30	9.3	12	63	13	-----	18	11	9.4	4.5	1.6	1.1	1.6
31	8.1	-----	96	12	-----	21	-----	8.8	-----	7.4	1.1	-----
TOTAL	361.6	702	620.7	576.6	393.9	884.8	780	267.4	244.8	69.5	52.4	32.24
MEAN	11.7	23.4	20.0	18.6	14.1	28.5	26.0	8.63	8.16	2.24	1.69	1.07
MAX	52	95	96	51	57	55	72	11	25	7.4	4.9	2.0
MIN	5.5	11	8.8	8.0	7.3	7.5	11	6.9	3.8	1.4	1.1	.84
CFSM	1.32	2.64	2.25	2.10	1.59	3.21	2.93	.97	.92	.25	.19	.12
IN.	1.52	2.94	2.60	2.42	1.65	3.71	3.27	1.12	1.03	.29	.22	.14

CAL YR 1972 TOTAL 3,924.20 MEAN 10.7 MAX 96 MIN 1.3 CFSM 1.21 IN 16.46
WTR YR 1973 TOTAL 4,985.94 MEAN 13.7 MAX 96 MIN .84 CFSM 1.54 IN 20.91

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1500	3.30	61	01-04	0600	3.29	60	03-25	2400	3.37	65
11-14	0500	3.93	103	02-02	1400	3.33	63	04-16	2400	3.88	100
12-13	0900	3.29	60	03-11	1400	3.54	76	04-22	1700	3.39	66
12-31	0500	4.08	114	03-14	1700	3.49	72				

03328500 Eel River near Logansport, Ind.

LOCATION.—Lat 40°46'55", long 86°15'50", in NE 1/4 SE 1/4 sec.14, T.27 N., R.2 E., Cass County, on right bank at downstream side of bridge on Adamsboro Road, 5.5 miles (8.8 km) northeast of Logansport, and 6.9 miles (11.1 km) upstream from mouth.

DRAINAGE AREA.—789 sq mi (2,044 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: July 1943 to current year. Monthly discharge only for some periods, published in WSP 1305.

WATER TEMPERATURE: October 1969 to current year.

SEDIMENT DISCHARGE: August 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 621.50 ft (189.433 m) above mean sea level. Prior to Aug. 16, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—30 years, 719 cfs (20.362 cu m/s), 12.37 in/yr (314 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,040	826	763	4,230	783	484	1,860	755	798	632	1,260	362
2	1,340	1,740	726	2,790	1,710	516	2,170	758	673	1,536	1,240	337
3	1,020	3,160	694	1,910	2,670	648	1,710	763	597	482	859	319
4	906	2,190	668	2,400	1,890	974	1,410	733	933	554	632	297
5	1,090	1,520	648	2,340	1,360	1,120	1,280	679	5,040	1,050	500	278
6	1,160	1,150	1,030	1,550	1,170	1,310	1,140	632	5,040	831	429	255
7	996	1,040	1,860	1,210	1,030	1,220	1,020	611	3,590	638	386	239
8	826	1,980	1,280	1,030	940	1,230	924	655	2,560	530	362	229
9	701	2,440	994	869	827	1,100	854	731	1,740	470	337	217
10	608	1,830	860	680	745	1,010	868	712	1,230	429	333	215
11	646	1,470	763	553	696	2,110	864	646	993	402	386	212
12	879	1,520	800	550	640	3,880	894	650	873	429	402	208
13	1,350	1,440	2,210	540	604	2,660	1,650	605	1,120	424	1,050	205
14	1,240	4,330	2,630	1,300	578	2,450	1,450	570	1,030	381	789	270
15	933	5,520	1,700	957	641	3,970	1,110	550	817	362	644	239
16	773	4,000	1,180	562	600	2,920	1,030	527	845	352	518	217
17	716	2,910	869	549	562	3,250	1,590	507	963	357	429	208
18	654	2,160	779	582	550	3,620	1,430	491	866	311	376	205
19	585	1,540	853	781	602	3,470	1,430	508	728	297	357	203
20	538	1,400	840	898	582	3,150	1,690	512	650	333	512	203
21	513	1,480	949	738	634	2,750	1,530	493	596	352	1,140	198
22	637	1,320	1,180	1,320	654	2,280	1,880	475	554	337	1,510	196
23	1,540	1,130	1,230	2,690	610	1,900	3,420	477	518	347	1,290	194
24	1,810	993	1,180	1,980	572	1,590	2,740	482	494	402	895	194
25	1,310	907	1,390	1,260	535	1,750	1,980	477	548	376	674	200
26	1,040	928	1,420	1,070	522	3,290	1,350	466	674	402	572	196
27	871	1,020	1,220	1,040	512	2,730	1,090	466	638	357	488	192
28	771	982	1,080	1,160	488	1,820	937	561	692	319	435	205
29	751	896	1,050	1,230	-----	1,380	826	737	698	285	397	210
30	893	808	2,300	993	-----	1,270	787	962	668	424	381	245
31	862	-----	4,970	833	-----	1,260	-----	913	-----	542	376	-----
TOTAL	29,999	54,630	40,116	40,595	23,707	63,112	42,914	19,104	37,166	13,943	19,959	6,948
MEAN	968	1,821	1,294	1,310	847	2,036	1,430	616	1,239	450	644	232
MAX	2,040	5,520	4,970	4,230	2,670	3,970	3,420	962	5,040	1,050	1,510	362
MIN	513	808	648	540	488	484	787	466	494	285	333	192
CFSM	1.23	2.31	1.64	1.66	1.07	2.58	1.81	.78	1.57	.57	.82	.29
IN.	1.41	2.58	1.89	1.91	1.12	2.98	2.02	.90	1.75	.66	.94	.33

CAL YR 1972 TOTAL 324,880 MEAN 888 MAX 5,520 MIN 176 CFSM 1.13 IN 15.32
WTR YR 1973 TOTAL 392,193 MEAN 1,075 MAX 5,520 MIN 192 CFSM 1.36 IN 18.49

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0700	8.27	5,750	06-06	0300	8.67	6,470
12-31	1000	9.92	5,120				

WABASH RIVER BASIN

03328500 Eel River near Logansport, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 6,470 cfs (183 cu m/s) June 6, gage height, 8.67 ft (2.643 m); minimum daily, 192 cfs (5.44 cu m/s) Sept. 27.

Period of record: Maximum discharge, 14,200 cfs (402 cu m/s) Dec. 9, 1966, gage height, 12.20 ft (3.719 m); minimum daily, 70 cfs (1.98 cu m/s) Mar. 15, 1960, result of freezeup.

Flood of May 18, 1943, reached a stage of 13.2 ft (4.02 m), from floodmark, discharge, 17,000 cfs (481 cu m/s).

WATER TEMPERATURE, Current year: Maximum temperature, 27.0°C July 10, Aug. 31, Sept. 3; minimum, freezing point on several days during December and January.

Period of record: Maximum temperature, 30.0°C June 29, 1971; minimum, freezing point on many days during winter periods.

SEDIMENT CONCENTRATION, Current year: Maximum daily concentration, 1,420 mg/l June 5; minimum daily, 16 mg/l Feb. 28, Mar. 1, May 14.

Period of record: Maximum daily concentration, 1,780 mg/l June 7, 1971; minimum daily, 14 mg/l Jan. 7, Feb. 22, 23, 1972.

SEDIMENT DISCHARGE, Current year: Maximum daily load, 19,900 tons (18,100 tonnes) June 5; minimum daily, 21 tons (19.1 tonnes) Feb. 28, Mar. 1.

Period of record: Maximum daily load, 20,500 tons (18,600 tonnes) June 7, 1971; minimum daily, 6.9 tons (6.3 tonnes) Aug. 31, Sept. 1, 1971.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	10.0	5.0	4.0	6.0	---	11.0	16.0	19.0	24.0	23.0	---
2	16.0	12.0	5.0	3.0	---	7.0	9.0	17.0	21.0	25.0	22.0	---
3	17.0	11.0	6.0	2.0	4.0	8.0	9.0	14.0	23.0	---	23.0	27.0
4	18.0	10.0	4.0	1.0	5.0	9.0	8.0	14.0	23.0	23.0	23.0	---
5	17.0	10.0	5.0	1.0	5.0	9.0	8.0	15.0	20.0	24.0	---	---
6	17.0	10.0	3.0	1.0	5.0	10.0	11.0	15.0	20.0	24.0	---	24.0
7	16.0	11.0	2.0	1.0	5.0	12.0	11.0	16.0	20.0	25.0	---	---
8	16.0	10.0	2.0	1.0	3.0	12.0	12.0	16.0	21.0	---	---	---
9	15.0	10.0	3.0	1.0	---	10.0	11.0	19.0	23.0	---	---	---
10	14.0	10.0	2.0	1.0	1.0	10.0	8.0	19.0	23.0	27.0	25.0	20.0
11	15.0	10.0	1.0	1.0	2.0	13.0	8.0	18.0	25.0	---	---	---
12	15.0	10.0	2.0	1.0	2.0	11.0	8.0	17.0	25.0	---	---	---
13	15.0	9.0	2.0	---	2.0	11.0	8.0	14.0	23.0	26.0	---	19.0
14	15.0	7.0	1.0	---	3.0	12.0	10.0	14.0	23.0	---	22.0	---
15	14.0	5.0	1.0	---	3.0	13.0	12.0	14.0	22.0	---	24.0	---
16	15.0	5.0	---	4.0	2.0	12.0	13.0	14.0	23.0	---	---	---
17	13.0	5.0	---	4.0	1.0	13.0	12.0	13.0	22.0	24.0	---	22.0
18	9.0	5.0	1.0	7.0	2.0	6.0	13.0	---	23.0	---	25.0	---
19	10.0	5.0	2.0	---	4.0	5.0	15.0	15.0	24.0	---	---	---
20	10.0	6.0	3.0	5.0	4.0	6.0	16.0	16.0	25.0	24.0	---	18.0
21	10.0	7.0	4.0	4.0	3.0	5.0	16.0	---	25.0	---	22.0	---
22	12.0	6.0	5.0	4.0	3.0	7.0	17.0	---	24.0	---	20.0	---
23	12.0	6.0	4.0	3.0	3.0	8.0	16.0	17.0	---	---	22.0	---
24	11.0	6.0	5.0	3.0	4.0	10.0	16.0	---	---	24.0	22.0	20.0
25	11.0	5.0	5.0	4.0	5.0	9.0	16.0	---	24.0	---	22.0	---
26	11.0	5.0	4.0	4.0	3.0	9.0	15.0	20.0	24.0	---	22.0	---
27	11.0	5.0	4.0	6.0	5.0	10.0	13.0	---	23.0	26.0	22.0	---
28	11.0	5.0	5.0	5.0	---	9.0	14.0	18.0	22.0	---	22.0	23.0
29	11.0	6.0	4.0	3.0	---	11.0	13.0	19.0	---	---	---	---
30	11.0	5.0	5.0	3.0	---	11.0	15.0	16.0	22.0	---	---	---
31	10.0	---	5.0	3.0	---	10.0	---	17.0	---	24.0	27.0	---
MONTH	13.5	7.5	3.5	3.0	3.5	9.5	12.0	16.0	22.5	---	---	---

03328500 Bel River near Logansport, Ind.—Continued
 SUSPENDED—SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2040	148	815	826	24	54	763	30	62
2	1340	80	289	1740	213	1210	726	28	55
3	1020	55	151	3160	326	2820	694	27	51
4	906	56	137	2190	142	840	668	26	47
5	1090	84	251	1520	77	316	648	25	44
6	1160	89	279	1150	44	137	1030	91	312
7	996	64	172	1040	37	104	1860	159	798
8	826	59	132	1980	198	1250	1280	67	232
9	701	65	123	2440	205	1380	994	32	86
10	608	56	92	1830	95	469	860	24	56
11	646	50	87	1470	58	230	763	22	45
12	879	63	150	1520	58	238	800	30	70
13	1350	148	542	1440	69	293	2210	204	1280
14	1240	93	311	4330	503	5840	2630	162	1150
15	933	63	159	5520	434	6470	1700	70	321
16	773	45	94	4000	233	2520	1180	43	137
17	716	44	85	2910	134	1050	869	38	89
18	654	46	81	2160	74	432	779	32	67
19	585	36	57	1540	49	204	853	34	78
20	538	28	41	1400	43	163	840	26	59
21	513	21	29	1480	42	168	949	28	72
22	637	35	67	1320	36	128	1180	37	118
23	1540	142	609	1130	33	101	1230	29	96
24	1810	114	557	993	32	86	1180	26	83
25	1310	66	233	907	31	76	1390	44	165
26	1040	40	112	928	35	88	1420	47	180
27	871	25	59	1020	42	116	1220	36	119
28	771	23	48	982	40	106	1080	25	73
29	751	18	36	896	37	90	1050	23	65
30	893	33	80	808	33	72	2300	231	1930
31	862	31	72	--	--	--	4970	537	7210
TOTAL	29999	--	5950	54630	--	27091	40116	--	15150
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4230	281	3210	783	40	85	484	16	21
2	2790	126	949	1710	160	833	516	28	39
3	1910	82	418	2670	235	1690	648	27	47
4	2400	156	1050	1890	104	531	974	36	95
5	2340	186	1180	1360	56	206	1120	47	142
6	1550	72	301	1170	34	107	1310	65	230
7	1210	50	163	1030	24	67	1220	56	184
8	1030	41	114	940	23	58	1230	59	196
9	869	52	122	827	22	49	1100	52	154
10	680	68	125	745	21	42	1010	54	147
11	553	77	115	696	21	39	2110	271	1890
12	550	76	113	640	22	38	3880	620	6500
13	540	74	108	604	22	36	2660	288	2070
14	1300	86	302	578	20	31	2450	323	2340
15	957	80	207	641	25	43	3970	683	7320
16	562	75	114	600	25	41	2920	354	2790
17	549	69	102	562	21	32	3250	311	2790
18	582	73	115	550	20	30	3620	243	2380
19	781	78	164	602	19	31	3470	164	1540
20	898	87	211	582	17	27	3150	110	936
21	738	70	139	634	25	43	2750	93	691
22	1320	158	627	654	31	55	2280	75	462
23	2690	276	2000	610	22	36	1900	65	333
24	1980	173	925	572	19	29	1590	54	232
25	1260	75	255	535	18	26	1750	99	539
26	1070	40	116	522	17	24	3290	263	2340
27	1040	34	95	512	17	24	2730	183	1350
28	1160	37	116	488	16	21	1820	102	501
29	1230	38	126	--	--	--	1380	67	250
30	993	32	86	--	--	--	1270	54	185
31	833	28	63	--	--	--	1260	50	170
TOTAL	40595	--	13731	23707	--	4274	63112	--	38864

03328500 Kel River near Logansport, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV. 15...	1800	5.0	5390	374	5440	46	53	55
JAN. 23...	1400	3.0	--	269	2090	52	59	69
MAR. 15...	0900	13.0	4220	764	8700	62	72	80
JUNE 05...	1100	20.0	6360	1170	20100	66	78	83
AUG. 22...	0900	20.0	1540	799	3320	73	87	93

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV. 15...	58	61	62	65	73	94	10
JAN. 23...	78	84	86	88	92	10	--
MAR. 15...	86	91	93	95	97	99	100
JUNE 05...	84	85	86	87	90	99	100
AUG. 22...	97	99	99	100	--	--	--

WABASH RIVER BASIN

03329000 Wabash River at Logansport, Ind.

LOCATION.--Lat 40°44'47", long 86°22'39", in SW 1/4 NE 1/4 sec.35, T.27 N., R.1 E., Cass County, on left bank 150 ft (46 m) downstream from Cicott Street bridge in Logansport, 1,000 ft (305 m) downstream from Eel River, and at mile 353.7 (569.1 km).

DRAINAGE AREA.--3,779 sq mi (9,788 km).

PERIOD OF RECORD.--April to September, November and December 1903, March to November 1904, March 1905 to July 1906, May 1923 to current year. January, February, and December 1904, January and February 1905 (gage heights only). Gage-height records collected at same site December 1910 to December 1916, and since January 1926 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 573.28 ft (174.736 m) above mean sea level (levels by Corps of Engineers). See WSP 1705 for history of changes prior to Oct. 1, 1927.

AVERAGE DISCHARGE.--50 years (1923-73), 3,262 cfs (92.1 cu m/s), 11.72 in/yr (298 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,800 cfs (504 cu m/s) Nov. 14, gage height, 9.38 ft (2.859 m); minimum daily, 660 cfs (18.7 cu m/s) July 19.

Period of record: Maximum discharge, 89,800 cfs (2,540 cu m/s) May 18, 1943, gage height, 21.32 ft (6.500 m); minimum daily, 135 cfs (3.82 cu m/s) Sept. 26, 1941.

Maximum stage known, 25.3 ft (7.711 m) Mar. 26, 1913, from floodmarks, discharge, 140,000 cfs (3,960 cu m/s).

REMARKS.--Records good. Flow partially regulated by Huntington Lake (See sta 03323450), Salamonie Lake (See sta 03324450), and Mississinewa Lake (See sta 03326950).

REVISIONS (WATER YEARS).--WSP 783: 1934. WSP 1335: 1904, 1925(M), 1926-30, 1931(M), 1932-35, 1937-39, 1948. WSP 1385: 1903, 1905-6, 1923-25. WSP 1505: 1906(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,360	3,180	10,200	11,600	4,470	1,660	10,500	8,740	2,580	4,830	3,470	960
2	6,860	7,020	7,920	7,910	7,370	1,510	8,210	6,940	2,040	2,940	2,960	925
3	6,650	9,930	7,550	5,990	10,600	1,610	7,180	7,100	1,850	2,030	1,800	904
4	9,330	7,500	7,030	7,450	8,240	2,180	9,140	8,300	3,150	1,670	1,340	979
5	9,810	6,550	7,180	7,560	6,930	2,720	8,800	6,200	11,000	2,390	1,070	976
6	9,430	8,560	8,980	5,530	8,720	3,770	8,650	5,850	10,500	2,020	885	922
7	9,030	10,200	11,700	4,490	9,190	3,810	8,980	4,200	10,300	1,720	839	833
8	8,800	13,000	9,880	4,120	8,720	3,890	8,690	2,360	9,980	1,490	793	766
9	7,090	10,700	7,910	3,850	6,950	3,480	8,580	2,720	9,230	1,240	756	736
10	5,520	8,730	7,490	3,290	4,550	3,700	8,740	3,320	10,400	1,100	730	710
11	5,750	8,190	7,800	5,240	2,770	8,390	9,430	2,430	9,950	988	763	700
12	6,220	9,780	8,000	6,560	2,440	13,200	10,700	2,450	9,630	949	770	708
13	7,490	11,000	11,800	7,080	2,310	10,100	13,000	2,470	9,590	949	1,330	699
14	7,300	16,600	9,870	6,910	2,310	9,260	11,800	2,160	8,980	874	2,160	831
15	6,480	14,600	6,670	7,000	2,460	12,200	9,250	2,070	7,750	814	7,760	772
16	6,090	11,900	5,290	9,780	2,350	10,100	10,900	1,780	4,720	746	6,310	832
17	5,850	13,200	8,850	7,730	2,190	12,000	10,300	1,510	3,480	713	10,100	1,130
18	5,720	12,200	10,300	6,170	2,150	12,100	7,260	1,370	2,710	693	9,120	943
19	4,640	12,500	9,560	4,120	2,120	11,500	10,400	1,560	2,310	660	8,430	1,060
20	3,260	12,400	10,800	4,090	2,210	11,100	8,310	1,780	1,990	706	6,290	1,070
21	2,820	12,800	10,000	2,980	2,570	10,400	7,490	1,940	1,670	855	7,480	1,250
22	2,860	12,200	10,200	3,980	2,510	9,290	8,320	2,310	1,450	1,270	7,000	1,190
23	4,130	11,700	10,200	7,290	2,280	8,620	10,800	2,330	1,290	1,650	6,110	1,240
24	4,990	11,600	9,630	6,920	2,210	7,940	7,960	1,890	1,220	1,880	3,510	1,250
25	4,550	12,500	10,800	5,610	1,960	9,610	6,750	1,500	1,220	2,480	2,660	1,280
26	3,840	12,400	10,900	5,750	1,810	13,300	5,930	1,440	1,340	2,390	2,370	1,220
27	3,310	12,400	9,030	6,570	1,710	10,200	7,000	1,430	1,890	2,390	2,200	1,210
28	3,030	12,100	8,200	7,100	1,640	8,280	9,800	1,870	4,000	1,820	1,650	1,250
29	3,030	11,500	7,590	7,070	-----	8,380	10,900	2,740	4,490	1,420	1,330	1,300
30	3,190	11,300	11,500	6,240	-----	8,970	10,800	4,060	4,890	1,730	1,140	1,260
31	3,190	-----	16,000	5,250	-----	8,960	-----	3,510	-----	2,910	985	-----
TOTAL	179,620	328,240	288,830	191,230	115,740	242,230	274,570	100,330	155,600	50,317	104,111	29,906
MEAN	5,794	10,940	9,317	6,169	4,134	7,814	9,152	3,236	5,187	1,623	3,358	997
MAX	9,810	16,600	16,000	11,600	10,600	13,300	13,000	8,740	11,000	4,830	10,100	1,300
MIN	2,820	3,180	5,290	2,980	1,640	1,510	5,930	1,370	1,220	660	730	699
CFSM	1.53	2.89	2.47	1.63	1.09	2.07	2.42	.86	1.37	.43	.89	.26
IN.	1.77	3.23	2.84	1.88	1.14	2.38	2.70	.99	1.53	.50	1.02	.29
CAL YR 1972	TOTAL 1,879,411		MEAN 5.135		MAX 17,700		MIN 392		CFSM 1.36		IN 18.50	
WTR YR 1973	TOTAL 2,060,724		MEAN 5.646		MAX 16,600		MIN 660		CFSM 1.49		IN 20.29	

03329400 Rattlesnake Creek near Patton, Ind.

LOCATION.—Lat 40°42'46", long 86°41'49", in NW 1/4 SW 1/4 sec.7, T.26 N., R.2 W., Carroll County, on left bank 5 ft (2 m) downstream from bridge on County Road 900 West, and 2.5 miles (4.0 km) northeast of Patton.

DRAINAGE AREA.—6.83 sq mi (17.69 sq km).

PERIOD OF RECORD.—October 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 645.97 ft (196.892 m) above mean sea level.

AVERAGE DISCHARGE.—5 years, 7.73 cfs (0.219 cu m/s), 15.37 in/yr (390 mm/yr).

EXTREMES.—Current year: Maximum discharge, 96 cfs (2.72 cu m/s) Dec. 30, gage height, 3.26 ft (0.994 m); minimum daily, 1.3 cfs (0.037 cu m/s) Sept. 20–24, 26, 27.

Period of record: Maximum discharge, 157 cfs (4.45 cu m/s) June 23, 1969; maximum gage height, 3.70 ft (1.128 m) July 5, 1969; minimum daily discharge, 0.51 cfs (0.014 cu m/s) Aug. 18, 19, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	7.4	8.3	41	12	3.8	34	6.5	11	3.7	45	2.0
2	17	42	7.4	28	26	4.0	22	6.9	8.6	3.4	28	1.9
3	14	26	6.7	34	19	4.4	18	6.3	7.6	3.2	17	2.0
4	12	18	6.7	41	14	4.6	15	5.5	24	3.2	13	2.0
5	11	14	6.8	24	12	4.4	12	5.2	62	3.1	10	2.1
6	9.4	12	19	16	10	3.3	10	5.0	31	2.7	7.0	2.1
7	8.3	14	12	11	9.1	23	9.4	5.0	18	2.6	5.0	2.0
8	7.5	17	9.7	9.0	8.5	15	8.3	5.2	12	2.6	4.0	2.0
9	6.5	14	8.0	8.0	7.0	14	8.5	4.6	8.8	2.5	3.0	1.9
10	5.7	12	7.0	7.0	6.2	16	7.9	4.3	7.3	2.3	2.5	1.9
11	6.0	10	6.1	6.0	5.8	47	7.1	4.0	6.5	2.0	2.3	1.7
12	12	9.1	25	5.6	5.3	27	9.9	3.9	9.5	1.9	2.7	1.6
13	10	29	39	5.4	5.0	18	10	3.6	8.8	1.7	2.3	1.6
14	7.4	55	21	5.3	5.3	49	9.1	3.4	6.1	1.8	18	2.4
15	5.7	38	15	5.0	5.2	40	8.3	3.4	5.8	1.7	15	1.6
16	5.7	26	10	5.3	4.6	27	15	3.6	5.7	1.6	9.0	1.5
17	4.6	19	8.2	6.8	4.5	53	17	3.3	25	1.4	5.0	1.5
18	4.4	15	7.4	8.6	4.5	40	13	3.3	13	1.4	4.0	1.4
19	4.2	14	7.7	15	4.5	29	14	3.9	10	1.5	3.5	1.4
20	4.0	16	13	9.1	4.6	21	28	3.1	8.4	2.1	3.0	1.3
21	4.2	15	14	8.6	4.7	16	45	3.0	7.4	2.7	2.5	1.3
22	17	13	13	24	4.6	14	61	2.8	6.5	31	2.2	1.3
23	32	11	11	22	4.4	11	37	2.8	5.8	35	2.2	1.3
24	18	10	11	12	3.9	10	22	2.6	5.5	34	2.2	1.3
25	13	10	13	10	3.9	28	15	3.0	5.0	22	2.0	1.7
26	10	11	12	11	3.8	26	11	2.5	4.9	16	1.8	1.3
27	8.4	11	10	12	3.8	17	8.3	3.9	4.7	9.0	1.7	1.3
28	7.5	9.9	9.4	14	3.7	14	6.8	9.0	4.4	5.8	1.9	1.8
29	7.0	8.9	24	12	-----	13	5.8	20	4.0	4.4	2.1	2.6
30	6.5	8.8	70	9.4	-----	12	5.3	27	3.9	20	2.2	2.3
31	6.4	-----	66	8.0	-----	21	-----	17	-----	70	2.2	-----
TOTAL	306.4	516.1	497.4	434.1	205.9	694.8	493.7	183.6	341.2	296.3	222.3	52.1
MEAN	9.88	17.2	16.0	14.0	7.35	22.4	16.5	5.92	11.4	9.56	7.17	1.74
MAX	32	55	70	41	26	53	61	27	62	70	45	2.6
MIN	4.0	7.4	6.1	5.0	3.7	3.8	5.3	2.5	3.9	1.4	1.7	1.3
CFSM	1.45	2.52	2.34	2.05	1.08	3.28	2.42	.87	1.67	1.40	1.05	.25
IN.	1.67	2.81	2.71	2.36	1.12	3.78	2.69	1.00	1.86	1.61	1.21	.28

CAL YR 1972 TOTAL 2,892.32 MEAN 7.90 MAX 70 MIN .55
WTR YR 1973 TOTAL 4,243.90 MEAN 11.6 MAX 70 MIN 1.3

CFSM 1.16 IN 15.75
CFSM 1.70 IN 23.11

PEAK DISCHARGE (BASE, 65 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	2400	2.92	71	06-05	0300	3.13	85
12-30	1800	3.26	96	07-22	1700	2.95	72
03-14	1300	3.04	79	07-31	0300	3.17	89
04-22	1100	3.16	88				

WABASH RIVER BASIN

03329700 Deer Creek near Delphi, Ind.

LOCATION.--Lat 40°35'25", long 86°37'15", in NE 1/4 NE 1/4 sec.27, T.25 N., R.2 W., Carroll County, on downstream side of left wingwall of highway bridge, 2.6 miles (4.2 km) northeast of Delphi Post Office, and 4.5 miles (7.2 km) upstream from mouth.

DRAINAGE AREA.--274 sq mi (710 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: October 1943 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 553.81 ft (168.801 m) above mean sea level (Corps of Engineers bench mark, levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.--30 years, 236 cfs (6.684 cu m/s), 11.70 in/yr (297 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,330 cfs (123 cu m/s) June 5, gage height, 9.53 ft (2.905 m); minimum daily, 36 cfs (1.02 cu m/s) Sept. 24, 27.

Period of record: Maximum discharge, 14,400 cfs (408 cu m/s) June 10, 1958, gage height, 18.26 ft (5.566 m); minimum daily, 6.2 cfs (0.18 cu m/s) Sept. 25-28, 1954.

Flood in May 1943 reached a stage of 19.8 ft (6.035 m), from floodmarks, discharge, 18,000 cfs (510 cu m/s), from rating curve extended above 8,000 cfs (227 cu m/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1275: 1944, 1947-48. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	680	182	295	1,980	319	123	775	298	298	123	444	62
2	446	1,090	265	1,010	1,240	127	720	268	234	109	254	59
3	322	1,750	244	705	1,410	137	615	247	201	100	168	55
4	268	1,040	230	1,230	874	159	554	220	872	101	129	51
5	434	625	222	862	615	298	514	197	3,870	99	106	49
6	390	462	442	538	486	534	462	182	1,910	92	93	47
7	310	414	558	390	398	482	406	177	1,300	85	83	45
8	256	615	402	320	352	378	352	190	760	78	75	44
9	210	554	328	280	307	331	316	195	518	73	69	44
10	170	454	274	250	271	514	310	183	382	69	65	43
11	200	394	247	220	244	1,510	277	165	304	66	64	42
12	550	346	313	200	222	1,800	274	154	274	62	67	40
13	462	466	1,660	190	202	910	298	145	265	58	62	38
14	343	2,750	1,270	180	197	868	292	138	200	55	136	80
15	262	2,790	685	170	207	1,140	274	132	175	54	1,450	57
16	215	1,530	466	161	190	745	280	129	172	52	1,820	48
17	195	916	330	165	160	1,560	286	126	1,020	49	743	45
18	159	645	290	185	160	1,820	298	122	581	46	404	42
19	135	522	280	256	165	1,610	298	151	376	44	279	41
20	118	514	367	265	161	1,240	319	152	276	71	215	40
21	116	534	446	217	154	892	446	134	219	263	170	39
22	163	478	466	434	146	685	720	124	186	361	137	38
23	470	398	398	868	150	550	1,030	122	164	229	115	37
24	398	349	355	506	142	466	660	120	149	265	117	36
25	313	331	430	355	133	550	462	116	137	554	119	41
26	262	346	418	343	131	1,450	361	113	130	529	105	38
27	225	352	358	378	125	1,530	307	114	248	364	91	36
28	205	337	325	470	123	886	268	129	233	243	80	37
29	192	316	367	550	-----	680	236	204	180	157	72	43
30	175	301	1,840	418	-----	566	244	537	146	135	71	41
31	170	-----	2,940	334	-----	518	-----	411	-----	212	66	-----
TOTAL	8,814	21,801	17,511	14,430	9,284	25,059	12,654	5,695	15,780	4,798	7,869	1,358
MEAN	284	727	565	465	332	808	422	34	526	155	254	45.3
MAX	680	2,790	2,940	1,980	1,410	1,820	1,030	37	3,870	554	1,820	80
MIN	116	182	222	161	123	123	236	13	130	44	62	36
CFSM	1.04	2.65	2.06	1.70	1.21	2.95	1.54	.67	1.92	.57	.93	.17
IN.	1.20	2.96	2.38	1.96	1.26	3.40	1.72	.77	2.14	.65	1.07	.18

CAL YR 1972 TOTAL 111,703 MEAN 305 MAX 3,320 MIN 28 CFSM 1.11 IN 15.17
WTR YR 1973 TOTAL 145,053 MEAN 397 MAX 3,870 MIN 36 CFSM 1.45 IN 19.69

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0200	6.58	1,960	03-17	2200	6.68	2,030
11-15	0300	8.24	3,190	06-05	0700	9.53	4,330
12-31	1000	8.07	3,060	08-16	0600	6.79	2,100
03-11	2000	6.88	2,170				

03329700 Deer Creek near Delphi, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT (MG/L)	SUS- PENDE SEDIMENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT. 19...	1535	8.5	129	130	45	--	--
NOV. 13...	1645	8.0	392	60	64	--	--
DEC. 19.	1510	1.0	271	64	47	--	--
JAN. 23...	1130	2.0	984	178	473	58	67
MAR. 05...	1500	9.0	328	262	232	57	67
APR. 03...	1240	7.0	612	67	111	--	--
MAY 08...	1220	15.0	186	45	23	--	--
JULY 18...	1140	--	49	47	6.2	--	--
AUG. 22...	1050	20.5	132	63	22	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
OCT. 19...	--	--	--	--	--	--	--
NOV. 13...	--	--	--	--	--	--	--
DEC. 19...	--	--	--	--	--	--	--
JAN. 23...	73	84	89	91	93	97	100
MAR. 05...	80	91	97	99	100	--	--
APR. 03...	--	--	--	--	--	--	--
MAY 08...	--	--	--	--	--	--	--
JULY 18...	--	--	--	--	--	--	--
AUG. 22...	--	--	--	--	--	--	--

03330500 Tippecanoe River at Oswego, Ind.

LOCATION.--Lat 41°19'14", long 85°47'21", in NE 1/4 sec. 14, T.33 N., R.6 E., Kosciusko County, on left bank 10 ft (3 m) downstream from dam at Tippecanoe Lake Outlet in Oswego, and 3 miles (5 km) east of Leesburg.

DRAINAGE AREA.--113 sq mi (293 sq km).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 830.00 ft (252.984 m) above mean sea level. Prior to Aug. 12, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 97.9 cfs (2.773 cu m/s), 11.77 in/yr (299 mm/yr).

EXTREMES.--Current year: Maximum discharge, 306 cfs (8.67 cu m/s) Mar. 26, Apr. 26; maximum gage height, 7.67 ft (2.338 m) Apr. 26; minimum daily, 16 cfs (0.45 cu m/s) July 18, 19, Sept. 2, 7-16.

Period of record: Maximum discharge, 700 cfs (19.8 cu m/s) Oct. 17, 1954, gage height, 8.64 ft (2.633 m); minimum daily, 0.08 cfs (0.002 cu m/s) Aug. 4, 5, 1967.

REMARKS.--Records good. Occasional regulation by flashboards at lake outlet.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	156	213	211	192	118	292	249	156	126	81	34
2	153	160	204	226	196	117	283	239	161	121	80	16
3	150	162	196	243	196	118	275	228	162	119	79	19
4	149	161	187	261	201	116	269	219	166	120	68	27
5	147	165	180	273	210	115	261	208	177	117	43	27
6	141	168	178	277	207	114	251	196	190	113	44	22
7	136	171	173	279	205	110	247	187	202	85	44	16
8	129	174	168	275	205	104	235	180	217	44	66	16
9	124	176	165	269	202	107	226	174	231	49	66	16
10	117	177	162	251	199	110	217	168	247	68	44	16
11	114	178	161	231	192	124	208	161	259	66	44	16
12	119	178	166	217	180	148	207	155	263	63	44	16
13	116	182	177	205	172	160	201	150	259	40	43	16
14	114	202	184	195	166	174	195	143	249	40	42	16
15	113	207	190	186	162	189	187	134	241	40	36	16
16	112	219	195	177	158	205	183	125	233	39	30	16
17	110	245	199	171	152	226	184	119	228	30	23	17
18	108	261	199	167	148	241	186	113	217	16	19	17
19	107	275	198	164	143	255	198	109	204	16	19	17
20	97	285	193	156	141	267	213	102	190	30	38	17
21	84	294	186	150	138	277	222	84	176	63	80	17
22	88	304	180	153	136	283	241	42	164	67	81	20
23	106	299	177	160	132	287	267	49	152	57	81	20
24	113	294	174	168	130	292	285	65	156	40	82	20
25	119	281	172	176	128	297	299	66	152	40	82	20
26	122	263	171	182	125	304	304	66	144	41	82	17
27	126	253	168	187	121	299	294	76	140	42	81	17
28	144	245	168	192	119	299	281	96	136	41	80	17
29	155	237	170	193	-----	302	275	111	134	41	76	18
30	155	223	178	192	-----	297	263	137	130	41	74	25
31	155	-----	198	192	-----	297	-----	147	-----	56	70	-----
TOTAL	3,873	6,595	5,630	6,379	4,656	6,352	7,249	4,298	5,736	1,871	1,822	564
MEAN	125	220	182	206	166	205	242	139	191	60.4	58.8	18.8
MAX	155	304	213	279	210	304	304	249	263	126	82	34
MIN	84	156	161	150	119	104	183	42	130	16	19	16
CFSM	1.11	1.95	1.61	1.82	1.47	1.81	2.14	1.23	1.69	.53	.52	.17
IN.	1.28	2.17	1.85	2.10	1.53	2.00	2.39	1.41	1.89	.62	.60	.19

CAL YR 1972 TOTAL 41,181.6 MEAN 113 MAX 332 MIN 8.0 CFSM 1.00 IN 13.56
WTR YR 1973 TOTAL 55,025.0 MEAN 151 MAX 304 MIN 16 CFSM 1.34 IN 18.11

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	0800	7.66	304	03-26	1200	7.60	306
12-17	1700	7.11	200	04-26	1100	7.67	306
01-06	0800	7.55	279	06-12	0200	7.57	265
02-05	0500	7.10	210				

03331110 Walnut Creek near Warsaw, Ind.

LOCATION.—Lat 41°12'17", long 85°52'11", in NW 1/4 NE 1/4 sec.30, T.32 N., R.6 E., Kosciusko County, on left bank 10 ft (3 m) upstream from bridge on County Road 200 South, 0.3 mile (0.5 km) downstream from small right-bank tributary, and 2.5 miles (4.0 km) south of court house in Warsaw.

DRAINAGE AREA.—19.6 sq mi (50.8 sq km).

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 823.00 ft (250.850 m) above mean sea level.

EXTREMES.—Current year: Maximum discharge, 120 cfs (3.40 cu m/s) Dec. 31, gage height, 2.78 ft (0.847 m); minimum daily, 1.4 cfs (0.040 cu m/s) Sept. 27, 28.

Period of record: Maximum discharge, 141 cfs (3.99 cu m/s) Apr. 21, 1970, gage height, 3.02 ft (0.920 m); maximum gage height, 3.06 ft (0.933 m) Feb. 7, 1971 (backwater from ice); minimum daily discharge, 0.90 cfs (0.025 cu m/s) Aug. 13, 24, to Sept. 3, 1971.

REMARKS.—Records good except those for period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	19	25	105	25	17	42	27	19	12	4.0	2.0
2	31	27	25	82	42	17	44	27	16	10	3.5	1.9
3	27	30	24	64	51	21	41	25	14	10	3.1	1.8
4	24	31	23	73	49	25	38	23	16	10	2.9	1.8
5	24	29	23	63	44	30	36	20	27	9.2	2.8	1.8
6	23	25	28	49	38	33	33	19	58	8.5	2.7	1.8
7	22	24	30	38	34	33	29	19	95	8.2	2.5	1.8
8	20	31	28	30	31	32	27	20	84	7.6	2.4	1.8
9	18	31	27	25	27	29	25	21	65	7.0	2.3	1.7
10	16	31	25	23	24	29	25	20	48	6.5	2.5	1.7
11	18	31	24	20	21	42	25	19	35	5.9	3.0	1.7
12	28	29	23	19	19	54	25	18	29	5.1	2.7	1.7
13	25	34	42	17	18	54	28	17	30	4.8	2.5	1.7
14	23	85	45	16	19	53	28	16	25	4.3	2.4	1.6
15	21	94	42	15	21	59	25	16	23	4.0	2.2	1.6
16	20	89	35	16	22	55	28	15	22	3.8	2.1	1.6
17	19	72	30	18	24	63	52	14	23	3.7	2.0	1.7
18	17	58	23	20	20	69	62	13	22	3.6	1.9	1.7
19	16	49	22	25	19	71	64	13	20	3.5	1.9	1.7
20	16	47	24	26	20	70	56	13	18	3.5	2.0	1.6
21	17	46	27	27	21	66	50	13	15	4.0	2.2	1.6
22	22	42	31	41	21	61	73	13	13	4.8	2.0	1.6
23	31	38	33	55	20	56	86	13	11	5.0	1.9	1.5
24	34	35	33	53	19	49	80	13	12	4.0	2.0	1.5
25	34	32	35	43	19	49	64	13	10	3.6	2.1	1.5
26	30	32	35	37	19	61	49	13	9.6	3.5	2.0	1.5
27	27	31	33	35	18	60	40	14	8.8	3.8	2.0	1.4
28	24	30	30	35	17	51	35	17	12	4.2	1.9	1.4
29	23	28	30	33	-----	45	30	18	14	3.8	1.8	4.4
30	21	26	58	28	-----	42	28	20	13	3.6	1.8	6.0
31	20	-----	116	25	-----	38	-----	21	-----	3.8	2.0	-----
TOTAL	727	1,206	1,029	1,158	722	1,434	1,268	543	807.4	175.3	73.1	57.1
MEAN	23.5	40.2	33.2	37.4	25.8	46.3	42.3	17.5	26.9	5.65	2.36	1.90
MAX	36	94	116	105	51	71	86	27	95	12	4.0	6.0
MIN	16	19	22	15	17	17	25	13	8.8	3.5	1.8	1.4
CFSM	1.20	2.05	1.69	1.91	1.32	2.36	2.16	.89	1.37	.29	.12	.10
IN.	1.34	2.29	1.95	2.20	1.37	2.72	2.41	1.03	1.53	.33	.14	.11

CAL YR 1972 TOTAL 7,490.1 MEAN 20.5 MAX 116 MIN 2.4 CFSM 1.05 IN 14.22
WTR YR 1973 TOTAL 9,199.9 MEAN 25.2 MAX 116 MIN 1.4 CFSM 1.29 IN 17.46

PEAK DISCHARGE (BASE, 75 CFS)

NOTE.—No gage-height record July 14 to Sept. 21.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0100	2.58	94	04-23	0100	2.52	86
12-31	0600	2.78	120	06-07	0400	2.60	96

WABASH RIVER BASIN

03331500 Tippecanoe River near Ora, Ind.

LOCATION.--Lat 41°09'26", long 86°33'49", in SE 1/4 SE 1/4 sec.6, T.31 N., R.1 W., Pulaski County, on right bank at downstream side of highway bridge, 1.0 mile (1.6 km) upstream from Bartee ditch, and 1.3 miles (2.1 km) southwest of Ora.

DRAINAGE AREA.--856 sq mi (2,217 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: September 1943 to current year. Monthly discharge only for some periods, published in WSP 1305.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 694 ft (212 m) (by barometer). Prior to July 30, 1956, nonrecording gage on upstream side of old highway bridge, 120 ft (37 m) downstream from present gage. July 30, 1956, to Dec. 20, 1964, water-stage recorder on right bank at downstream side of old highway bridge, and Dec. 21, 1964, to Aug. 19, 1965, nonrecording gage on right bank 500 ft (152 m) downstream from present site. All gages at same datum.

AVERAGE DISCHARGE.--30 years, 798 cfs (22.60 cu m/s), 12.66 in/yr (322 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,720 cfs (134 cu m/s) Jan. 2, gage height, 12.37 ft (3.770 m); minimum daily, 223 cfs (6.32 cu m/s) Sept. 23.

Period of record: Maximum discharge, 7,800 cfs (221 cu m/s) Apr. 5, 1950, gage height, 14.40 ft (4.389 m) site then in use; minimum daily, 87 cfs (2.46 cu m/s) Sept. 13, 1966.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1944(M). WSP 1505: 1949-50(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,170	1,260	1,630	4,310	1,570	934	2,180	1,750	1,490	722	642	360
2	1,930	1,390	1,580	4,620	1,690	956	2,430	1,690	1,380	701	672	370
3	1,740	1,700	1,520	4,150	1,980	1,040	2,480	1,620	1,320	675	567	350
4	1,600	1,770	1,460	3,800	2,090	1,170	2,300	1,530	1,300	687	498	300
5	1,510	1,680	1,410	3,580	2,030	1,310	2,140	1,450	1,640	725	457	280
6	1,420	1,590	1,500	3,000	1,980	1,630	2,000	1,370	2,010	704	433	300
7	1,290	1,540	1,680	2,500	1,800	1,760	1,880	1,290	2,060	675	407	240
8	1,190	1,600	1,600	2,150	1,650	1,720	1,780	1,260	1,960	633	376	250
9	1,080	1,740	1,520	1,900	1,550	1,610	1,690	1,260	1,770	585	360	260
10	970	1,700	1,450	1,700	1,450	1,550	1,660	1,210	1,600	546	368	240
11	916	1,650	1,370	1,550	1,400	1,670	1,620	1,140	1,520	492	373	240
12	965	1,630	1,380	1,400	1,350	2,060	1,600	1,080	1,490	470	425	230
13	1,060	1,620	1,730	1,300	1,300	2,290	1,730	1,020	1,640	454	480	230
14	1,130	1,970	2,150	1,200	1,200	2,150	1,820	970	1,580	433	600	240
15	1,130	2,570	2,120	1,150	1,100	2,140	1,720	912	1,410	415	650	260
16	1,110	2,930	1,750	1,150	1,050	2,200	1,650	864	1,390	394	620	230
17	1,090	2,850	1,500	1,390	1,050	2,180	1,760	828	1,660	381	540	250
18	992	2,680	1,530	1,480	1,050	2,350	1,930	800	1,780	373	480	233
19	908	2,500	1,590	1,620	1,130	2,590	1,910	792	1,610	363	440	233
20	848	2,320	1,730	1,720	1,170	2,720	1,900	784	1,450	360	400	230
21	812	2,230	1,670	1,640	1,200	2,760	1,940	750	1,300	355	370	228
22	844	2,160	1,740	1,610	1,190	2,690	2,200	739	1,150	394	370	225
23	1,380	2,060	1,780	1,850	1,150	2,540	2,830	772	1,020	431	390	223
24	1,840	1,960	1,750	1,970	1,090	2,350	3,420	760	912	486	400	225
25	1,830	1,880	1,770	1,880	1,050	2,230	3,230	739	860	546	450	246
26	1,690	1,860	1,800	1,820	1,020	2,260	2,800	792	816	498	500	246
27	1,590	1,860	1,780	1,800	988	2,430	2,450	796	792	472	480	246
28	1,490	1,830	1,710	1,790	952	2,330	2,170	832	784	433	440	246
29	1,420	1,760	1,680	1,810	-----	2,240	1,970	1,070	788	412	410	251
30	1,370	1,690	2,030	1,730	-----	2,180	1,840	1,420	757	399	390	277
31	1,300	-----	3,170	1,630	-----	2,120	-----	1,550	-----	457	370	-----
TOTAL	40,615	57,980	53,080	65,200	38,230	62,160	63,030	33,840	41,239	15,671	14,358	7,739
MEAN	1,310	1,933	1,712	2,103	1,365	2,005	2,101	1,092	1,375	506	463	258
MAX	2,170	2,930	3,170	4,620	2,090	2,760	3,420	1,750	2,060	725	672	370
MIN	812	1,260	1,370	1,150	952	934	1,600	739	757	355	360	223
CFSM	1.53	2.26	2.00	2.46	1.59	2.34	2.45	1.28	1.61	.59	.54	.30
IN.	1.77	2.52	2.31	2.83	1.66	2.70	2.74	1.47	1.79	.68	.62	.34

CAL YR 1972 TOTAL 415,706 MEAN 1,136 MAX 3,920 MIN 271 CFSM 1.33 IN 18.07
WTR YR 1973 TOTAL 493,142 MEAN 1,351 MAX 4,620 MIN 223 CFSM 1.58 IN 21.43

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-16	1400	10.86	2,960	03-27	1600	10.24	2,450
01-02	0300	12.37	4,720	04-02	2300	10.33	2,520
03-13	0700	10.04	2,300	04-24	1700	11.39	3,490
03-21	0500	10.62	2,760				

WABASH RIVER BASIN

03331500 Tippecanoe River near Ora, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT CHARGE (MG/L)	SUS- PENDE SEDIMENT DIS- CHARGE (T/DAY)
NOV. 01...	1615	9.0	1220	14	46
JAN. 08...	1730	2.0	2160	9	52
MAR. 20...	1045	7.0	2750	20	148
APR. 24...	1520	--	3510	22	208
JUNE 05...	0945	--	1600	67	289
JULY 10...	1500	30.0	524	33	47
SFP. 18...	1400	15.0	227	24	15

03332300 Little Indian Creek near Royal Center, Ind.

LOCATION.--Lat 40°52'53", long 86°35'26", in NE 1/4 NW 1/4 sec.13, T.28 N., R.2 W., White County, on right bank at downstream side of county road bridge, 2.9 miles (4.7 km) upstream from mouth, 3.2 miles (5.1 km) downstream from Fredericks ditch, and 4.8 miles (7.7 km) northwest of Royal Center Post Office.

DRAINAGE AREA.--35.0 sq mi (90.6 sq km).

PERIOD OF RECORD.--July 1959 to September 1973, converted to partial-record station.

GAGE.--Water-stage recorder. Datum of gage is 692.73 ft (211.144 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 28.7 cfs (0.813 cu m/s), 11.14 in/yr (283 mm/yr).

EXTREMES.--Current year: Maximum discharge, 349 cfs (9.88 cu m/s) Dec. 31, gage height, 6.61 ft (2.015 m); minimum daily, 4.8 cfs (0.14 cu m/s) Sept. 24.

Period of record: Maximum discharge, about 500 cfs (14.2 cu m/s) Mar. 5, 1963 (gage height, unknown); minimum daily, 0.5 cfs (0.014 cu m/s) Dec. 17-22, 1963.

Maximum stage known, 11.2 ft (3.41 m) in Spring of 1957, from information by local residents.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	41	42	292	46	23	139	39	38	39	161	8.8
2	62	92	39	210	99	26	103	36	32	29	97	8.8
3	50	96	37	153	96	29	86	33	28	25	61	8.5
4	44	68	35	209	71	32	74	30	48	25	38	8.2
5	49	56	34	146	63	70	62	27	200	22	24	8.2
6	45	48	74	99	55	89	55	26	134	20	19	8.5
7	40	48	57	79	49	67	49	26	84	17	14	8.5
8	36	72	45	63	44	53	44	27	58	16	11	8.2
9	32	61	40	49	40	47	42	26	45	16	10	7.6
10	29	53	36	40	36	52	42	24	36	15	9.1	7.9
11	54	49	45	35	32	155	37	22	32	14	8.2	7.6
12	88	44	47	30	31	155	47	22	30	13	7.9	7.6
13	62	63	141	28	29	100	67	21	28	12	7.6	7.6
14	50	188	104	29	30	136	50	21	26	12	36	8.2
15	42	162	72	29	32	161	43	20	27	12	47	9.1
16	40	116	62	29	30	107	49	20	45	12	22	7.9
17	36	94	48	39	38	169	81	19	183	11	16	6.7
18	32	76	40	50	28	168	63	18	135	11	13	6.4
19	30	66	37	78	27	149	66	20	79	11	12	6.1
20	30	70	50	57	30	116	68	20	54	13	12	5.8
21	30	70	57	46	32	90	105	18	41	14	9.4	5.3
22	56	62	62	83	30	75	210	18	34	13	8.8	5.0
23	136	54	57	115	28	64	211	19	30	12	8.5	5.0
24	112	49	57	71	26	56	134	18	27	14	16	4.8
25	80	48	66	58	25	84	95	21	24	14	14	8.8
26	64	54	59	57	25	145	71	19	24	26	12	6.1
27	53	57	51	61	24	94	56	19	34	21	10	5.0
28	48	52	47	69	23	73	45	27	143	15	9.7	5.5
29	46	46	63	63	-----	65	39	38	92	12	9.4	18
30	42	44	235	49	-----	67	39	64	56	48	9.4	12
31	40	-----	343	42	-----	71	-----	52	-----	103	9.4	-----
TOTAL	1,642	2,099	2,182	2,458	1,119	2,788	2,272	810	1,847	637	742.4	231.7
MEAN	53.0	70.0	70.4	79.3	40.0	89.9	75.7	26.1	61.6	20.5	23.9	7.72
MAX	136	188	343	292	99	169	211	64	200	103	161	18
MIN	29	41	34	28	23	23	37	18	24	11	7.6	4.8
CFSM	1.51	2.00	2.01	2.27	1.14	2.57	2.16	.75	1.76	.59	.68	.22
IN.	1.75	2.23	2.32	2.61	1.19	2.96	2.41	.86	1.96	.68	.79	.25

CAL YR 1972 TOTAL 14,224.6 MEAN 38.9 MAX 343 MIN 2.3 CFSM 1.11 IN 15.12
WTR YR 1973 TOTAL 18,828.1 MEAN 51.6 MAX 343 MIN 4.8 CFSM 1.47 IN 20.01

PEAK DISCHARGE (BASE, 250 CFS).--Dec. 31 (1000) 349 cfs (6.61 ft).

03332400 Big Monon Creek near Francesville, Ind.

LOCATION.—Lat 40°59'03", long 86°51'43", in NW 1/4 NE 1/4 sec.10, T.29 N., R.4 W., Pulaski County, on right bank at downstream side of county road bridge, 1.1 miles (1.8 km) east of Francesville, 1.6 miles (2.6 km) downstream from right-bank tributary, and 10.2 miles (16.4 km) upstream from mouth.

DRAINAGE AREA.—152 sq mi (394 sq km).

PERIOD OF RECORD.—August 1959 to September 1973 (discontinued as a continuous-record station; converted to a crest-stage and low-flow partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 653.17 ft (199.086 m) above mean sea level.

AVERAGE DISCHARGE.—14 years, 144 cfs (4.078 cu m/s), 12.87 in/yr (327 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,660 cfs (47.0 cu m/s) Dec. 31, gage height, 14.38 ft (4.383 m); minimum daily, 37 cfs (1.05 cu m/s) Sept. 24.

Period of record: Maximum discharge, 2,750 cfs (77.9 cu m/s) Dec. 25, 1965, gage height, 15.14 ft (4.615 m), from flood marks; maximum gage height, 15.90 ft (4.846 m) Feb. 2, 1968; minimum daily discharge, 8.5 cfs (0.24 cu m/s) Nov. 20, 1964.

Maximum stage known, about 18.60 ft (5.67 m) in Spring of 1957, from information by local residents.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	411	198	218	1,100	236	148	860	212	229	117	511	57
2	287	366	205	700	463	162	666	217	184	102	250	51
3	234	357	194	630	461	213	513	207	176	96	166	51
4	209	274	183	750	369	225	434	188	178	109	129	54
5	207	239	180	590	330	390	358	170	325	105	107	51
6	191	215	388	410	299	442	300	163	356	91	96	48
7	174	217	306	330	270	351	263	160	292	84	86	47
8	160	264	238	250	230	284	239	160	225	76	79	47
9	143	237	211	220	210	249	227	152	180	70	74	46
10	133	221	189	200	180	287	272	144	154	68	74	47
11	184	227	258	180	160	464	239	135	136	65	86	44
12	245	211	326	170	140	415	278	131	130	61	101	42
13	204	260	507	160	150	291	456	128	135	61	83	42
14	178	885	379	150	161	327	350	126	119	58	100	42
15	154	724	277	150	177	327	280	121	114	54	123	40
16	153	524	250	140	167	260	269	118	119	51	90	40
17	141	420	240	160	246	472	409	116	256	49	78	42
18	130	341	230	195	251	520	347	112	262	46	71	46
19	129	311	230	320	178	446	387	120	220	46	66	42
20	123	314	243	261	194	367	390	117	209	49	68	41
21	124	353	233	222	212	298	473	108	198	59	61	40
22	222	323	243	282	188	252	1,100	109	154	93	58	39
23	648	282	232	374	171	226	930	119	136	113	57	39
24	517	253	227	292	153	210	628	113	123	98	119	37
25	365	242	246	265	155	245	434	119	106	86	106	41
26	289	287	245	267	156	407	326	118	99	85	79	42
27	253	302	232	283	148	304	274	123	103	97	68	38
28	232	266	228	329	142	246	239	206	222	72	61	39
29	232	231	270	311	-----	336	213	273	166	65	55	49
30	216	222	907	256	-----	480	210	299	135	158	63	47
31	201	-----	1,540	227	-----	409	-----	322	-----	557	68	-----
TOTAL	7,089	9,566	9,855	10,174	6,197	10,053	12,364	4,906	5,441	2,941	3,233	1,331
MEAN	229	319	318	328	221	324	412	158	181	94.9	104	44.4
MAX	648	885	1,540	1,100	463	520	1,100	322	356	557	511	57
MIN	123	198	180	140	140	148	210	108	99	46	55	37
CFSM	1.51	2.10	2.09	2.16	1.45	2.13	2.71	1.04	1.19	.62	.68	.29
IN.	1.73	2.34	2.41	2.49	1.52	2.46	3.03	1.20	1.33	.72	.79	.33

CAL YR 1972 TOTAL 80,113 MEAN 219 MAX 1,540 MIN 44 CFSM 1.44 IN 19.61
WTR YR 1973 TOTAL 83,150 MEAN 228 MAX 1,540 MIN 37 CFSM 1.50 IN 20.35

WABASH RIVER BASIN

03332500 Tippecanoe River near Monticello, Ind.

LOCATION.--Lat 40°46'48", long 86°45'36", in NW 1/4 NE 1/4 sec.21, T.27 N., R.3 W., White County, at Norway plant of Northern Indiana Public Service Co., 2 miles (3 km) north of Monticello.

DRAINAGE AREA.--1,732 sq (4,486 sq km).

PERIOD OF RECORD.--October 1931 to current year.

AVERAGE DISCHARGE.--42 years, 1,485 cfs (42.06 cu m/s), 11.64 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 12,200 cfs (346 cu m/s) Dec. 31; minimum daily, 368 cfs (10.4 cu m/s) Sept. 24.
Period of record: Maximum daily discharge, 16,800 cfs (476 cu m/s) June 13, 1958; minimum daily, 103 cfs (2.92 cu m/s) July 27, 1934.

REMARKS.--Discharge computed on basis of records of operation of powerplant and flow over dam.

COOPERATION.--Records of daily discharges furnished by Northern Indiana Public Service Co.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,060	2,310	2,620	9,850	2,620	1,490	5,400	2,840	2,620	1,280	3,750	701
2	3,420	3,220	2,620	7,930	3,680	1,600	5,570	2,390	2,310	1,170	2,420	635
3	3,060	3,790	2,280	7,480	4,260	1,890	4,890	2,600	2,160	1,130	1,820	520
4	2,690	3,310	2,310	8,780	3,870	2,040	4,240	2,310	2,390	1,260	1,370	520
5	2,430	2,950	2,260	7,160	3,640	3,240	4,000	2,100	5,470	1,190	1,090	619
6	2,410	2,620	2,900	5,010	3,230	3,780	3,280	2,080	4,350	1,190	1,040	520
7	2,060	2,620	2,960	4,620	3,200	3,430	3,300	2,060	3,760	1,060	915	433
8	2,000	2,990	2,920	4,000	3,060	3,630	2,820	1,810	3,520	1,090	849	520
9	1,810	2,710	2,740	3,290	2,640	2,970	2,770	1,980	2,900	915	833	412
10	1,590	2,670	2,310	1,990	2,500	3,160	2,910	1,810	2,290	915	722	520
11	2,020	2,620	1,660	2,000	2,180	4,400	2,510	1,810	2,260	915	700	477
12	2,700	2,620	2,820	2,020	2,000	4,090	2,940	1,560	2,110	783	1,020	455
13	2,220	2,870	4,590	1,890	2,020	3,860	3,490	1,670	2,230	668	834	455
14	2,060	6,430	4,380	2,140	2,080	4,480	3,190	1,570	2,180	750	1,090	511
15	1,870	6,190	3,640	2,310	1,810	4,910	3,020	1,430	2,000	701	1,510	455
16	1,810	5,030	2,270	2,140	2,020	3,880	2,960	1,490	1,960	536	1,320	455
17	1,730	4,610	1,980	2,550	1,810	5,350	3,740	1,220	3,210	668	1,110	433
18	1,660	4,580	2,140	2,570	1,910	5,930	3,500	1,430	3,560	622	915	455
19	1,590	3,950	2,520	3,150	1,810	5,240	3,500	1,300	2,820	569	882	455
20	1,430	3,780	2,900	3,020	1,810	4,890	3,820	1,370	2,340	734	767	430
21	1,560	4,100	3,280	2,800	2,100	4,500	4,620	1,340	2,160	709	668	390
22	1,650	3,930	2,970	2,870	2,040	3,950	7,930	1,260	1,810	783	668	509
23	3,450	3,350	2,880	3,300	1,810	3,900	8,810	1,260	1,970	915	668	455
24	4,010	3,220	2,760	3,480	1,810	3,640	6,460	1,300	1,530	1,000	892	368
25	3,750	3,060	3,060	3,060	1,700	4,030	5,740	1,320	1,340	1,000	1,000	520
26	3,090	3,160	3,060	3,060	1,760	4,910	4,990	1,260	1,430	1,190	915	520
27	2,620	3,230	2,840	3,060	1,670	4,230	4,240	1,430	1,430	1,000	750	477
28	2,620	3,000	2,800	3,300	1,590	3,710	3,350	1,600	1,820	915	772	477
29	2,450	2,730	2,860	3,060	-----	3,940	3,270	2,760	1,560	800	701	619
30	2,260	2,520	7,700	3,060	-----	4,150	2,830	3,090	1,430	1,170	657	520
31	2,170	-----	12,200	2,840	-----	4,080	-----	2,840	-----	3,910	685	-----
TOTAL	74,250	104,170	101,230	117,790	66,630	119,300	124,090	56,290	72,920	31,538	33,333	14,836
MEAN	2,395	3,472	3,265	3,800	2,380	3,848	4,136	1,816	2,431	1,017	1,075	495
MAX	4,060	6,430	12,200	9,850	4,260	5,930	8,810	3,090	5,470	3,910	3,750	701
MIN	1,430	2,310	1,660	1,890	1,590	1,490	2,510	1,220	1,340	536	657	368
CFSM	1.38	2.00	1.89	2.19	1.37	2.22	2.39	1.05	1.40	.59	.62	.29
IN.	1.59	2.24	2.17	2.53	1.43	2.56	2.67	1.21	1.57	.68	.72	.32
CAL YR 1972	TOTAL 765,215	MEAN 2,091	MAX 12,200	MIN 368	CFSM 1.21	IN 16.44						
WTR YR 1973	TOTAL 916,377	MEAN 2,511	MAX 12,200	MIN 368	CFSM 1.45	IN 19.68						

03333000 Tippecanoe River near Delphi, Ind.

LOCATION.--Lat 40°37'02", long 86°45'39", in NW 1/4 NE 1/4 sec.16, T.25 N., R.3 W., Carroll County, on right bank 2 miles (3 km) northeast of Springboro, 2 miles (3 km) downstream from Big Creek, and 5 miles (8 km) northwest of Delphi.

DRAINAGE AREA.--1,865 sq mi (4,830 sq km).

PERIOD OF RECORD.--March to December 1903, March to December 1904, March 1905 to July 1906, November and December 1908, July 1939 to current year. Published as "at Springboro" 1903.

GAGE.--Water-stage recorder. Datum of gage is 552.01 ft (168.253 m) above mean sea level (levels by Corps of Engineers). Mar. 14, 1903, to July 20, 1906, and Nov. 2 to Dec. 31, 1908, nonrecording gage at site 5.5 miles (8.8 km) downstream at different datum.

AVERAGE DISCHARGE.--34 years (1939 to current year), 1,616 cfs (45.76 cu m/s), 11.76 in/yr (299 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,200 cfs (402 cu m/s) Dec. 31, gage height, 11.81 ft (3.600 m); minimum daily, 432 cfs (12.2 cu m/s) Sept. 19.

Period of record: Maximum discharge, 22,600 cfs (640 cu m/s) Feb. 10, 1959, gage height, 15.10 ft (4.602 m); minimum daily, 1 cfs (0.028 cu m/s) Nov. 2, 3, 1954, caused by repair work at Oakdale Dam, 6.5 miles (10.5 km) upstream.

REMARKS.--Records good. Flow regulated by powerplant above station.

REVISIONS (WATER YEARS).--WSP 973: 1942. WSP 1335: 1905-6. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,210	2,300	3,100	10,500	2,780	1,580	5,840	2,960	2,920	1,410	4,230	794
2	3,190	2,960	2,650	8,300	3,870	1,890	5,730	2,580	2,460	1,340	2,860	776
3	3,000	3,670	2,500	8,300	4,580	1,800	4,890	2,810	2,420	1,260	2,060	564
4	2,590	3,140	2,500	9,300	4,080	2,290	4,470	2,440	2,570	1,360	1,630	564
5	2,100	2,470	2,500	6,700	3,730	3,560	4,220	2,210	6,320	1,100	1,340	597
6	2,300	2,170	2,950	5,500	3,610	4,370	3,530	2,280	4,920	1,390	1,110	483
7	1,760	2,290	3,200	4,600	3,260	3,600	3,560	2,290	3,860	1,060	1,070	532
8	1,740	2,720	3,050	3,700	3,250	3,530	3,010	1,940	3,740	1,180	1,060	597
9	1,450	2,360	2,650	2,750	2,920	3,310	2,940	2,140	3,010	1,010	785	489
10	1,370	2,390	2,150	2,020	2,740	3,280	3,060	1,890	2,580	1,000	839	501
11	1,830	2,290	1,850	2,180	2,100	4,740	2,560	1,860	2,640	947	776	489
12	2,360	2,290	3,500	1,920	2,380	5,160	3,020	1,820	2,260	803	1,060	489
13	1,890	2,580	4,500	1,840	2,200	4,090	3,470	1,670	2,540	812	947	489
14	1,670	6,410	5,200	2,200	2,200	4,790	3,400	1,820	2,360	857	1,380	604
15	1,380	6,610	3,800	2,290	1,930	5,060	3,160	1,490	2,160	758	1,840	454
16	1,540	5,400	2,350	2,300	2,240	4,230	3,100	1,600	2,230	668	1,490	507
17	1,460	4,630	1,950	2,600	1,850	5,430	3,730	1,500	3,290	611	1,220	538
18	1,600	4,580	2,500	2,700	2,120	6,340	3,830	1,460	3,620	646	1,080	483
19	1,510	4,280	2,700	3,150	1,840	5,510	3,610	1,490	2,960	639	974	432
20	1,440	4,000	3,000	3,150	2,000	4,920	4,070	1,550	2,600	938	875	438
21	1,870	4,400	3,350	2,970	2,220	4,710	4,780	1,480	2,220	740	692	438
22	1,840	4,000	3,100	3,100	2,260	4,010	8,460	1,490	2,090	1,060	732	532
23	3,220	3,750	2,900	3,310	1,860	4,110	9,400	1,310	1,780	938	767	483
24	4,120	3,400	3,000	3,870	1,990	3,600	6,410	1,460	1,810	1,240	812	449
25	3,590	3,200	3,400	3,290	1,760	4,080	5,560	1,470	1,330	1,150	1,060	519
26	3,200	3,200	3,150	3,280	1,770	5,350	4,750	1,470	1,610	1,330	1,060	584
27	2,560	3,200	2,900	3,290	1,940	4,490	4,210	1,770	1,500	1,260	875	495
28	2,450	3,150	3,050	3,310	1,760	3,970	3,580	1,690	1,990	992	794	551
29	2,390	2,850	3,050	3,320	-----	3,840	3,410	3,020	1,600	956	749	776
30	2,000	2,400	9,400	3,280	-----	4,190	3,010	3,380	1,500	1,070	700	590
31	2,160	-----	14,000	3,250	-----	4,300	-----	3,280	-----	3,950	716	-----
TOTAL	69,790	103,090	109,900	122,270	71,240	126,130	128,770	61,620	78,890	34,475	37,583	16,237
MEAN	2,251	3,436	3,545	3,944	2,544	4,069	4,292	1,988	2,630	1,112	1,212	541
MAX	4,210	6,610	14,000	10,500	4,580	6,340	9,400	3,380	6,320	3,950	4,230	794
MIN	1,370	2,170	1,850	1,840	1,760	1,580	2,560	1,310	1,330	611	692	432
CFSM	1.21	1.84	1.90	2.11	1.36	2.18	2.30	1.07	1.41	.60	.65	.29
IN.	1.39	2.06	2.19	2.44	1.42	2.52	2.57	1.23	1.57	.69	.75	.32
CAL YR 1972	TOTAL 799,761	MEAN 2,185	MAX 14,000	MIN 446	CFSM 1.17	IN 15.95						
WTR YR 1973	TOTAL 959,995	MEAN 2,630	MAX 14,000	MIN 432	CFSM 1.41	IN 19.15						

WABASH RIVER BASIN

03333450 Wildcat Creek near Jerome, Ind.

LOCATION.--Lat 40°26'29", long 85°55'08", in NE 1/4 SE 1/4 sec.14, T.23 N., R.5 E., Howard County, on right bank at downstream side of bridge on County Road 1100 East, 0.5 mile (0.8 km) downstream from Mud Creek, and 1.5 miles (2.4 km) southeast of Jerome.

DRAINAGE AREA.--146 sq mi (378 sq km).

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 820.04 ft (249.948 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 119 cfs (3.375 cu m/s), 11.07 in/yr (281 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,240 cfs (63.4 cu m/s) Nov. 14, gage height, 9.40 ft (2.865 m); minimum daily, 11 cfs (0.31 cu m/s) July 18, 19, Sept. 13, 19-21.

Period of record: Maximum discharge, 4,160 cfs (118 cu m/s) Apr. 20, 1964; maximum gage height, 11.98 ft (3.652 m) Jan. 26, 1962; minimum daily discharge, 1.1 cfs (0.031 cu m/s) Oct. 10-12, 1966.

Flood in March 1913 reached a stage of about 18 ft (5.486 m), from information by local residents.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	793	112	160	717	183	48	696	111	54	49	40	24
2	519	1,270	135	406	732	48	564	104	50	43	28	20
3	354	1,660	121	298	855	58	404	99	49	38	23	17
4	272	983	112	617	558	80	342	87	56	36	19	16
5	325	641	109	476	397	120	335	78	518	37	16	15
6	284	457	553	280	299	222	271	73	952	33	15	14
7	224	363	541	189	231	203	226	73	737	28	13	13
8	178	488	316	148	201	171	189	93	409	25	12	12
9	135	416	220	122	154	174	161	107	258	23	14	13
10	102	327	166	111	129	543	156	89	180	22	14	13
11	115	284	124	100	106	1,130	126	78	138	20	13	12
12	433	238	191	90	96	1,050	129	70	127	18	31	12
13	358	300	843	80	92	581	144	64	140	17	47	11
14	250	1,930	635	71	90	714	132	58	114	15	589	26
15	175	1,600	375	70	94	1,100	120	57	94	14	1,850	25
16	144	938	238	61	81	665	128	55	87	13	1,470	17
17	129	646	150	62	73	843	381	54	145	12	701	13
18	98	471	140	66	75	934	315	50	217	11	358	12
19	83	370	132	81	72	887	296	73	129	11	214	11
20	74	385	238	80	70	733	290	109	95	13	149	11
21	71	399	276	71	66	562	266	79	77	45	105	11
22	75	330	270	286	61	449	511	70	67	91	76	13
23	127	262	210	519	66	347	936	67	60	54	58	17
24	226	216	200	296	58	283	575	62	54	71	60	15
25	171	196	254	187	52	414	366	59	49	130	62	14
26	140	204	236	175	52	1,190	253	54	50	110	50	15
27	120	202	191	193	47	1,140	192	53	116	73	40	14
28	109	196	160	270	48	659	147	61	123	48	32	13
29	104	178	150	346	-----	467	117	67	89	33	28	13
30	97	168	462	238	-----	439	115	66	62	35	26	13
31	95	-----	944	175	-----	417	-----	61	-----	67	24	-----
TOTAL	6,380	16,230	8,852	6,881	5,038	16,671	8,883	2,281	5,296	1,235	6,177	445
MEAN	206	541	286	222	180	538	296	73.6	177	39.8	199	14.8
MAX	793	1,930	944	717	855	1,190	936	111	952	130	1,850	26
MIN	71	112	109	61	47	48	115	50	49	11	12	11
CFSM	1.41	3.71	1.96	1.52	1.23	3.68	2.03	.50	1.21	.27	1.36	.10
IN.	1.63	4.14	2.26	1.75	1.28	4.25	2.26	.58	1.35	.31	1.57	.11

CAL YR 1972 TOTAL 71,164.7 MEAN 194 MAX 2,340 MIN 5.7 CFSM 1.33 IN 18.13
WTR YR 1973 TOTAL 84,369.0 MEAN 231 MAX 1,930 MIN 11 CFSM 1.58 IN 21.50

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1500	9.40	2,240	03-26	2200	7.52	1,430
03-11	2000	7.53	1,440	08-15	1200	8.83	1,960
03-15	0500	6.89	1,220				

03333600 Kokomo Creek near Kokomo, Ind.

LOCATION.—Lat 40°26'28", long 86°05'20", in NW 1/4 SW 1/4 sec.16, T.23 N., R.4 E., Howard County, on left bank at upstream side of bridge on County Road 200 East, 2.6 miles (4.2 km) southeast of intersection of U.S. Highways 31 and 35 in Kokomo, and 4.2 miles (6.8 km) upstream from mouth.

DRAINAGE AREA.—24.7 sq mi (64.0 sq km).

PERIOD OF RECORD.—July 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 807.68 ft (246.181 m) above mean sea level (unadjusted).

AVERAGE DISCHARGE.—14 years, 19.5 cfs (0.552 cu m/s), 10.72 in/yr (272 mm/yr).

EXTREMES.—Current year: Maximum discharge, 412 cfs (11.7 cu m/s) Aug. 14, gage height, 7.04 ft (2.146 m); minimum daily, 1.0 cfs (0.028 cu m/s) Aug. 7, 8.

Period of record: Maximum discharge, 1,040 cfs (29.4 cu m/s) Apr. 20, 1964, gage height, 9.88 ft (3.011 m); minimum daily, 0.12 cfs (0.003 cu m/s) Oct. 3, 1967.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 2109: Drainage area. WRD Ind. 1970-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	34	29	107	48	9.9	116	20	6.6	11	7.0	2.0
2	57	297	27	70	147	10	90	19	6.3	9.6	4.7	1.5
3	39	211	24	63	127	15	69	17	7.0	8.8	3.6	1.2
4	40	126	23	111	88	20	63	15	18	8.1	2.6	1.2
5	54	91	22	74	70	50	62	12	111	8.0	1.8	1.5
6	42	69	99	48	56	70	50	12	111	7.1	1.5	1.5
7	33	63	70	35	46	58	43	12	82	6.3	1.0	1.3
8	25	83	51	29	42	46	35	19	57	6.0	1.0	1.5
9	18	66	39	22	34	54	30	16	41	5.0	1.3	2.0
10	13	58	31	19	27	111	27	14	30	4.7	1.2	1.8
11	36	51	23	17	22	230	21	12	23	4.3	1.6	1.7
12	81	44	62	14	19	152	24	11	62	4.0	2.2	1.6
13	56	91	166	14	18	98	23	9.4	51	3.7	2.2	1.5
14	40	339	95	13	19	195	21	8.1	29	3.3	199	8.6
15	29	191	66	12	20	201	20	7.7	22	2.4	315	6.6
16	25	126	43	11	17	120	37	7.7	18	1.8	155	2.2
17	21	96	32	12	15	181	58	7.4	80	1.5	99	1.5
18	15	74	28	13	16	164	53	6.3	56	1.3	56	1.5
19	13	63	28	18	15	155	48	13	34	1.3	31	1.5
20	12	67	45	15	15	127	46	13	22	3.9	19	1.6
21	11	68	47	16	14	99	41	9.8	16	22	11	1.6
22	15	58	47	58	14	80	126	9.4	12	26	7.0	1.8
23	36	46	40	73	14	63	127	9.0	9.0	12	5.0	3.5
24	47	38	42	42	11	54	83	7.7	7.7	21	7.4	2.5
25	34	34	44	33	11	105	63	7.7	15	27	7.0	2.7
26	27	35	41	34	10	207	41	6.3	25	20	5.0	2.4
27	22	35	35	39	9.4	149	32	7.7	42	11	3.6	2.1
28	20	34	30	55	9.9	98	22	8.6	30	8.1	2.6	2.5
29	19	32	40	58	-----	74	18	8.6	20	4.7	2.0	2.3
30	18	30	120	42	-----	63	23	8.1	15	7.0	2.0	2.0
31	17	-----	179	33	-----	73	-----	7.4	-----	12	2.0	-----
TOTAL	1,001	2,650	1,664	1,200	954.3	3,131.9	1,512	341.9	1,058.6	272.9	960.3	67.2
MEAN	32.3	88.3	53.8	38.7	34.1	101	50.4	11.0	35.3	8.80	31.0	2.24
MAX	86	339	179	111	147	230	127	20	111	27	315	8.6
MIN	11	30	22	11	9.4	9.9	18	6.3	6.3	1.3	1.0	1.2
CFSM	1.31	3.57	2.18	1.57	1.38	4.09	2.04	.45	1.43	.36	1.26	.09
IN.	1.51	3.99	2.51	1.81	1.44	4.72	2.28	.51	1.59	.41	1.45	.10

CAL YR 1972 TOTAL 10,902.58 MFAN 29.8 MAX 508 MIN .76 CFSM 1.21 IN 16.42
WTR YR 1973 TOTAL 14,818.10 MFAN 40.6 MAX 339 MIN 1.0 CFSM 1.64 IN 22.32

PEAK DISCHARGE (BASE, 260 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1000	6.22	347	03-14	1800	5.47	287
11-14	0400	6.55	373	08-14	1800	7.04	412
03-11	1200	5.30	275				

03333700 Wildcat Creek at Kokomo, Ind.

LOCATION.--Lat 40°28'24", long 86°09'26", in NE 1/4 NW 1/4 sec.2, T.23 N., R.3 E., Howard County, on right bank on property of Continental Steel Corporation in Kokomo, 0.3 mile (0.5 km) downstream from Kokomo Creek, and 0.4 mile (0.6 km) upstream from Dixon Road bridge.

DRAINAGE AREA.--242 sq mi (627 sq km).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 775.62 ft (236.409 m) above mean sea level (levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.--18 years, 214 cfs (6.06 cu m/s), 12.01 in/yr (305 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,600 cfs (102 cu m/s) Nov. 15, gage height, 7.45 ft (2.271 m); minimum daily, 37 cfs (1.05 cu m/s) Sept. 23.

Period of record: Maximum discharge, 8,100 cfs (229 cu m/s) Feb. 10, 1959; maximum gage height, 11.77 ft (3.587 m) Apr. 21, 1964; minimum daily discharge, 7.2 cfs (0.20 cu m/s) Sept. 30, 1956.

REMARKS.--Records good. Some regulation at low stages for municipal water supply by regulation of Kokomo Reservoirs No. 1 and No. 2; combined capacity, 4,170 acre-ft (5,140,000 cu m).

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,280	207	277	1,360	308	88	909	218	102	94	94	58
2	788	1,690	263	795	914	93	927	202	90	80	72	53
3	532	2,840	235	588	1,410	109	681	189	81	70	59	49
4	490	1,910	225	821	981	133	564	168	207	71	54	53
5	463	1,050	211	854	675	253	534	150	528	69	50	49
6	440	717	509	543	497	361	454	135	1,180	61	50	48
7	341	588	835	355	391	364	385	138	1,180	56	51	47
8	278	648	554	284	334	321	326	203	656	50	57	45
9	238	653	371	241	285	341	287	192	398	51	57	43
10	190	529	286	193	240	684	265	170	283	50	54	46
11	263	448	244	186	204	1,680	248	139	230	48	58	49
12	479	376	406	164	185	1,940	249	125	268	48	51	49
13	563	611	1,140	144	172	1,040	229	113	255	50	53	47
14	390	2,680	1,150	133	177	1,070	99	104	206	46	1,440	90
15	287	3,280	684	134	197	1,790	93	94	171	45	3,280	48
16	239	1,860	443	124	167	1,270	133	83	175	45	2,660	41
17	214	1,080	291	124	136	1,310	417	88	314	44	1,360	45
18	183	763	270	138	133	1,560	507	83	316	43	577	42
19	151	619	264	168	137	1,490	459	162	246	45	346	45
20	128	589	337	157	137	1,210	459	155	174	103	255	54
21	118	616	421	178	128	885	415	144	148	128	200	49
22	159	553	427	342	122	675	680	123	122	70	153	41
23	195	443	365	698	120	520	1,360	115	105	60	116	37
24	294	370	327	546	115	405	941	114	95	123	168	42
25	281	334	364	337	102	550	582	110	87	136	114	58
26	239	328	380	294	102	1,590	393	95	93	170	99	42
27	209	333	336	301	92	2,110	298	115	197	141	85	43
28	191	325	295	381	88	1,250	250	108	210	94	70	62
29	178	310	301	499	-----	786	214	134	184	67	62	58
30	168	290	643	411	-----	653	257	120	125	96	64	38
31	166	-----	1,450	313	-----	639	-----	111	-----	107	59	-----
TOTAL	10,135	27,040	14,304	11,806	8,549	27,170	13,615	4,200	8,426	2,361	11,868	1,471
MEAN	327	901	461	381	305	876	454	135	281	76.2	383	49.0
MAX	1,280	3,280	1,450	1,360	1,410	2,110	1,360	218	1,180	170	3,280	90
MIN	118	207	211	124	88	88	93	83	81	43	50	37
CFSM	1.35	3.72	1.91	1.57	1.26	3.62	1.88	.56	1.16	.31	1.58	.20
IN.	1.56	4.16	2.20	1.81	1.31	4.18	2.09	.65	1.30	.36	1.82	.23

CAL YR 1972 TOTAL 117,135 MEAN 320 MAX 4,230 MIN 24 CFSM 1.32 IN 18.01
WTR YR 1973 TOTAL 140,945 MEAN 386 MAX 3,280 MIN 37 CFSM 1.60 IN 21.67

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	1100	6.81	2,980	03-27	0400	5.96	2,220
11-15	0300	7.45	3,600	08-15	1200	7.23	3,380
03-12	0600	6.00	2,120				

03334000 Wildcat Creek at Owasco, Ind.

LOCATION.—Lat 40°27'50", long 86°38'15", in SE 1/4 SE 1/4 sec.4, T.23 N., R.2 W., Carroll County, on left bank 500 ft (152 m) downstream from bridge on Stage Highway 39, 0.5 mile (0.8 km) northwest of Owasco, and 15 miles (24 km) upstream from South Fork Wildcat Creek.

DRAINAGE AREA.—396 sq mi (1,026 sq km).

PERIOD OF RECORD.—October 1943 to September 1973 (discontinued as a continuous-record station; converted to a crest-stage and low-flow partial-record station). Prior to March 1944 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 624.63 ft (190.387 m) above mean sea level. Prior to Oct. 1, 1950, nonrecording gage at site 500 ft (152 m) upstream at same datum.

AVERAGE DISCHARGE.—30 years, 356 cfs (10.1 cu m/s), 12.21 in/yr (310 mm/yr).

EXTREMES.—Current year: Maximum discharge, 3,680 cfs (104 cu m/s) Aug. 16, gage height, 8.18 ft (2.493 m); minimum daily, 70 cfs (1.98 cu m/s) Sept. 24

Period of record: Maximum discharge, 10,200 cfs (289 cu m/s) Jan. 5, 1950, gage height, 13.30 ft (4.054 m), from rating curve extended above 6,700 cfs (190 cu m/s); minimum daily, 11 cfs (0.31 cu m/s) Sept. 25, 1944.

Flood of May 18, 1943, reached a stage of 14.00 ft (4.267 m), from floodmarks.

REMARKS.—Records good. Some regulation at low stages for municipal water supply by regulation of Kokomo Reservoirs No. 1 and No. 2; combined capacity, 4,170 acre-ft (5,140,000 cu m).

REVISIONS (WATER YEARS).—WSP 1625: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,790	260	485	2,030	515	197	1,100	490	254	235	192	125
2	1,400	994	455	1,530	947	200	1,270	404	228	193	160	114
3	958	2,140	416	1,060	1,550	212	1,120	372	216	172	134	105
4	761	2,520	384	1,280	1,580	238	915	344	374	168	116	97
5	938	2,030	376	1,300	1,190	404	834	313	1,130	167	105	96
6	779	1,230	570	1,010	929	655	776	292	1,240	155	96	96
7	655	955	987	716	740	699	690	273	1,590	140	90	91
8	500	943	974	540	635	630	610	306	1,310	132	88	86
9	380	959	713	450	535	555	535	341	834	122	88	86
10	311	852	550	350	450	807	495	322	601	118	91	84
11	314	739	436	340	388	1,580	440	288	459	116	90	82
12	732	636	515	330	340	2,300	420	263	406	111	94	82
13	836	678	1,550	310	324	2,110	420	249	580	106	90	84
14	740	1,990	1,690	296	317	1,450	372	235	459	103	171	91
15	535	2,910	1,350	282	344	1,840	270	224	366	101	2,020	134
16	391	3,240	888	273	332	2,000	261	209	331	98	3,440	94
17	333	2,220	560	258	282	2,000	332	204	820	94	2,810	82
18	293	1,350	520	273	270	2,180	655	203	899	90	1,450	76
19	261	1,030	510	348	261	2,190	670	269	662	89	802	79
20	229	938	655	344	270	1,990	665	371	482	117	555	76
21	208	938	717	313	267	1,610	722	292	368	258	400	80
22	235	902	758	547	249	1,280	866	270	300	267	302	88
23	368	794	704	915	244	1,040	1,420	255	260	158	249	76
24	367	675	625	942	235	866	1,550	244	232	195	227	70
25	441	600	645	699	225	843	1,130	237	212	490	270	72
26	386	585	680	555	215	1,540	803	233	199	510	207	90
27	329	585	630	530	215	2,230	620	211	204	364	185	78
28	297	570	560	580	207	2,230	500	257	321	255	163	72
29	275	535	595	722	-----	1,460	420	277	358	183	140	80
30	257	495	1,350	726	-----	1,080	396	349	297	152	129	114
31	247	-----	2,000	595	-----	965	-----	291	-----	181	131	-----
TOTAL	16,546	35,293	23,848	20,444	14,056	39,381	21,277	8,888	15,992	5,640	15,085	2,680
MEAN	534	1,176	769	659	502	1,270	709	287	533	182	487	89.3
MAX	1,790	3,240	2,000	2,030	1,580	2,300	1,550	490	1,590	510	3,440	134
MIN	208	260	376	258	207	197	261	203	199	89	88	70
CFSM	1.35	2.97	1.94	1.66	1.27	3.21	1.79	.72	1.35	.46	1.23	.23
IN.	1.55	3.32	2.24	1.92	1.32	3.70	2.00	.83	1.50	.53	1.42	.25

CAL YR 1972 TOTAL 170,939 MEAN 467 MAX 5,830 MIN 44 CFSM 1.18 IN 16.06
WTR YR 1973 TOTAL 219,130 MEAN 600 MAX 3,440 MIN 70 CFSM 1.52 IN 20.58

PEAK DISCHARGE (BASE, 3,000 CFS).—Nov. 16 (1400) 3,280 cfs (7.77 ft); Aug. 16 (1600) 3,680 cfs (8.18 ft).

03334500 South Fork Wildcat Creek near Lafayette, Ind.

LOCATION.—Lat 40°25'04", long 86°46'05", in SW 1/4 SW 1/4 sec.21, T.23 N., R.3 W., Tippecanoe County, on right bank 40 ft (12 m) upstream from bridge on State Highway 26, 0.5 mile (0.8 km) upstream from Middle Fork, 4.2 miles (6.8 km) upstream from mouth, and 5 miles (8 km) east of Lafayette.

DRAINAGE AREA.—243 sq mi (629 sq km).

PERIOD OF RECORD.—October 1943 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 566.60 ft (172.700 m) above mean sea level (State Highway Department of Indiana bench mark). Prior to July 29, 1954, nonrecording gage at site 40 ft (12 m) downstream at same datum.

AVERAGE DISCHARGE.—30 years, 234 cfs (6.627 cu m/s), 13.08 in/yr (332 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,740 cfs (77.6 cu m/s) Dec. 31, gage height, 8.37 ft (2.551 m); minimum daily, 47 cfs (1.33 cu m/s) Sept. 23, 29.

Period of record: Maximum discharge, 12,600 cfs (357 cu m/s) June 10, 1958, gage height, 15.28 ft (4.657 m), from rating curve extended above 6,000 cfs (170 cu m/s) on basis of contracted-opening measurement at 16.8 ft (5.121 m); minimum daily, 15 cfs (0.42 cu m/s) Sept. 19, 22, 1944, Aug. 30, 31, Sept. 1, 14, 15, 1969.

Flood in May 1943 reached a stage of 16.8 ft (5.12 m), from floodmarks, discharge, 17,900 cfs (507 cu m/s) by contracted-opening measurement).

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1948(M). WSP 1505: 1947. WSP 1725: 1951-53(M), 1955(M). WSP 1909: 1955(P). WSP 2109: Drainage area.

CORRECTION.—Datum published in error prior to Oct. 1, 1969. Peak gage heights for May 1943 and June 10, 1958, published in error in WRD Ind. 1970 and 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,210	208	309	1,510	299	137	548	244	121	119	85	73
2	768	1,570	283	904	912	138	517	225	114	108	78	66
3	541	1,870	260	646	1,080	147	439	216	112	101	73	61
4	460	1,220	250	1,060	756	165	396	197	163	103	69	57
5	720	780	242	788	566	385	357	184	585	103	64	56
6	580	583	566	534	454	590	329	174	653	96	61	55
7	445	506	643	400	382	517	304	170	669	86	59	54
8	365	676	442	300	343	439	283	183	590	83	56	51
9	296	587	357	250	281	365	260	180	336	79	55	55
10	237	486	290	230	250	569	257	164	260	81	57	54
11	237	430	230	220	224	1,770	224	154	211	75	55	51
12	712	371	433	210	208	1,550	217	147	241	70	126	50
13	590	464	1,900	200	204	916	206	141	724	66	126	48
14	424	2,380	1,200	192	194	924	190	136	415	62	400	62
15	326	1,860	720	184	227	1,360	184	130	272	59	2,000	71
16	268	1,190	480	174	217	932	188	130	229	56	1,000	55
17	242	804	351	176	176	1,560	239	125	965	54	600	51
18	202	601	332	192	190	1,520	289	123	1,080	51	400	50
19	180	506	302	270	180	1,400	270	134	679	49	265	49
20	163	506	545	294	174	1,130	388	143	427	56	200	49
21	159	545	541	232	168	852	448	127	302	107	157	48
22	204	506	527	424	159	650	776	122	233	102	129	48
23	442	436	439	716	159	531	980	121	194	86	113	47
24	402	385	399	439	154	451	908	121	167	201	100	48
25	329	360	448	343	145	632	614	120	149	252	96	53
26	278	365	430	296	144	1,670	453	116	138	339	90	60
27	247	357	374	299	142	1,510	366	113	202	181	81	50
28	224	346	334	351	137	956	307	121	213	123	75	48
29	212	337	393	451	-----	680	263	138	163	95	70	47
30	196	320	1,580	388	-----	559	265	137	135	93	69	48
31	190	-----	2,440	320	-----	493	-----	131	-----	99	78	-----
TOTAL	11,849	21,555	18,040	12,993	8,525	25,498	11,465	4,667	10,742	3,235	6,887	1,615
MEAN	382	719	582	419	304	823	382	151	358	104	222	53.8
MAX	1,210	2,380	2,440	1,510	1,080	1,770	980	244	1,080	339	2,000	73
MIN	159	208	230	174	137	137	184	113	112	49	55	47
CFSM	1.57	2.96	2.40	1.72	1.25	3.39	1.57	.62	1.47	.43	.91	.22
IN.	1.81	3.30	2.76	1.99	1.31	3.90	1.76	.71	1.64	.50	1.05	.25

CAL YR 1972 TOTAL 116,692 MEAN 319 MAX 3,090 MIN 35 CFSM 1.31 IN 17.86
WTR YR 1973 TOTAL 137,071 MEAN 376 MAX 2,440 MIN 47 CFSM 1.55 IN 20.98

PEAK DISCHARGE (BASE, 3,000 CFS).—No peak above base.

03335000 Wildcat Creek near Lafayette, Ind.

LOCATION.—Lat 40°26'26", long 86°49'46", in SE 1/4 NE 1/4 sec.14, T.23 N., R.4 W., Tippecanoe County, on downstream side of bridge on County Road 2A East, 2.5 miles (4.0 km) upstream from mouth, 3 miles (5 km) downstream from South Fork Wildcat Creek, and 3.7 miles (6.0 km) northeast of Court House in Lafayette.

DRAINAGE AREA.—794 sq mi (2,056 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: May 1954 to current year.

CHEMICAL ANALYSES: December 1970 to current year.

WATER TEMPERATURE: December 1970 to current year.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.—Water-stage recorder and multi-parameter monitor. Datum of gage is 527.66 ft (160.831 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark). Prior to June 13, 1957, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.—19 years, 726 cfs (20.56 cu m/s), 12.41 in/yr (315 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,500	560	899	4,630	1,020	432	2,120	837	438	424	360	245
2	2,610	2,530	834	3,340	2,290	436	2,250	738	395	362	301	223
3	1,770	4,440	769	2,330	3,250	456	2,000	691	371	322	255	204
4	1,350	4,110	722	3,160	2,940	507	1,670	626	713	330	223	191
5	1,940	3,560	727	2,740	2,260	1,120	1,490	582	3,240	323	201	181
6	1,570	2,310	1,280	2,050	1,740	1,710	1,370	545	2,840	294	185	180
7	1,260	1,800	1,810	1,450	1,400	1,600	1,250	515	2,940	270	174	172
8	1,010	1,940	1,650	1,110	1,210	1,360	1,130	537	2,250	252	167	166
9	827	1,820	1,240	921	1,020	1,190	1,010	609	1,490	242	164	169
10	685	1,610	978	748	887	1,790	959	565	1,090	238	172	166
11	670	1,380	789	700	776	4,150	866	523	861	228	180	159
12	1,590	1,190	1,020	660	704	4,790	827	479	753	210	244	154
13	1,540	1,310	4,280	640	674	3,890	811	456	1,470	201	267	152
14	1,300	5,240	3,670	600	654	3,280	755	433	1,050	192	996	193
15	1,000	5,520	2,680	570	700	4,050	633	416	763	183	2,960	216
16	811	5,030	1,750	549	698	3,750	624	397	675	177	4,150	192
17	715	4,110	1,200	533	580	4,850	700	380	1,860	168	4,150	162
18	619	2,570	1,100	567	584	4,970	1,050	375	2,400	165	2,440	150
19	547	1,970	983	723	562	4,820	1,120	433	1,580	153	1,320	149
20	484	1,790	1,390	795	559	4,190	1,260	589	1,100	204	949	146
21	457	1,800	1,490	653	551	3,340	1,470	493	814	400	716	146
22	525	1,710	1,530	1,090	521	2,630	2,440	453	653	492	564	151
23	1,020	1,470	1,350	2,040	510	2,120	3,470	428	555	336	466	146
24	954	1,260	1,200	1,770	495	1,770	3,000	417	491	480	412	140
25	490	1,130	1,270	1,320	473	1,990	2,170	403	444	790	442	146
26	815	1,110	1,270	1,070	461	4,200	1,540	393	411	1,140	378	152
27	722	1,090	1,160	1,030	451	4,790	1,190	375	464	740	339	156
28	654	1,050	1,030	1,130	442	4,080	956	399	604	504	300	139
29	606	996	1,080	1,400	-----	2,950	812	474	603	376	268	141
30	566	936	3,880	1,340	-----	2,200	777	538	502	320	251	165
31	536	-----	6,020	1,140	-----	1,920	-----	509	-----	344	251	-----
TOTAL	33,543	67,342	51,051	42,799	28,412	85,331	41,720	15,608	33,820	10,860	24,245	5,052
MEAN	1,082	2,245	1,647	1,381	1,015	2,753	1,391	503	1,127	350	782	168
MAX	3,500	5,520	6,020	4,630	3,250	4,970	3,470	837	3,240	1,140	4,150	245
MIN	457	560	722	533	442	432	624	375	371	153	164	139
CFSM	1.36	2.83	2.07	1.74	1.28	3.47	1.75	.63	1.42	.44	.98	.21
IN.	1.57	3.16	2.39	2.01	1.33	4.00	1.95	.73	1.58	.51	1.14	.24

CAL YR 1972 TOTAL 359,524 MEAN 982 MAX 10,500 MIN 104 CFSM 1.24 IN 16.84
WTR YR 1973 TOTAL 439,783 MEAN 1,205 MAX 6,020 MIN 139 CFSM 1.52 IN 20.60

PEAK DISCHARGE (BASE, 6,300 CFS).—December 31 (0900) 6,300 cfs (10.78 ft).

03335000 Wildcat Creek near Lafayette, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 6,300 cfs (178 cu m/s) Dec. 31, gage height, 10.78 ft (3.286 m); minimum daily, 139 cfs (3.94 cu m/s) Sept. 28.

Period of record: Maximum discharge, 25,000 cfs (708 cu m/s) June 10, 1958, gage height, 21.52 ft (6.559 m), from rating curve extended above 18,000 cfs (510 cu m/s); minimum daily, 46 cfs (1.30 cu m/s) Sept. 28, 29, 1954.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 729 micromhos Apr. 18, Sept. 19; minimum, 231 micromhos Aug. 15. Period of record: Maximum conductance, 901 micromhos Mar. 21, 23, 1971; minimum, 216 micromhos June 12, 1971.

WATER TEMPERATURE, Current year: Maximum temperature, 29.5°C July 9, 10; minimum, freezing point on many days during December to February.

Period of record: Maximum temperature, 31.0°C July 22, 1972; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good. Some regulation during low flow for municipal water supply for Kokomo.

REVISIONS (WATER YEARS).--WSP 155: 1955, 1957(M). WSP 2109: Drainage area.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) : WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	496	453	620	612	684	679	538	514	---	---	685	675
2	519	502	606	507	686	679	552	539	---	---	689	682
3	552	539	526	497	688	684	559	534	---	---	703	685
4	584	577	535	517	687	675	538	533	---	---	699	677
5	612	575	525	509	682	678	559	539	---	---	701	608
6	638	612	545	520	680	651	576	560	---	---	608	529
7	646	634	545	533	662	653	585	577	---	---	614	594
8	657	645	545	541	656	653	591	586	---	---	634	600
9	661	652	545	541	671	661	602	589	---	---	646	628
10	660	654	551	535	674	666	613	604	---	---	622	589
11	663	650	551	532	672	652	619	613	---	---	587	413
12	647	624	557	525	672	618	623	619	---	---	486	442
13	641	623	551	506	578	533	627	622	---	---	519	494
14	655	642	498	428	582	540	623	618	---	---	512	446
15	662	655	459	421	599	584	620	612	---	---	482	456
16	671	663	455	444	606	593	618	612	---	---	515	468
17	673	669	496	474	631	608	615	611	---	---	498	417
18	669	666	544	525	637	629	621	612	---	---	477	419
19	674	664	580	567	640	632	614	608	---	---	475	452
20	671	662	617	606	640	620	608	605	---	---	510	444
21	671	657	651	644	628	619	611	607	---	---	525	506
22	670	652	657	649	625	617	605	559	---	---	545	510
23	646	630	661	654	635	619	558	544	---	---	574	549
24	633	627	674	661	642	635	579	556	---	---	579	571
25	639	627	674	668	640	635	596	582	---	---	594	471
26	639	635	673	667	635	633	603	596	---	---	480	407
27	637	633	674	668	639	633	606	603	---	---	479	413
28	639	633	675	665	647	639	604	589	---	---	508	480
29	638	632	680	671	649	649	590	585	---	---	536	510
30	633	625	681	677	516	488	595	588	---	---	564	538
31	627	622	---	---	512	495	605	598	---	---	574	566
MONTH	674	453	681	421	688	488	627	514	---	---	703	407

03335000 Wildcat Creek near Lafayette, Ind.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	576	566	595	578	555	547	685	653	629	609	625	597
2	576	566	585	572	554	546	702	674	629	615	640	610
3	603	569	602	589	565	550	702	668	624	608	660	601
4	608	603	620	599	561	438	679	652	633	605	677	590
5	619	608	620	603	438	387	673	640	643	609	680	650
6	628	622	629	614	452	419	668	637	635	615	694	657
7	630	625	634	628	494	422	679	642	653	592	696	659
8	650	636	638	616	526	494	693	647	639	611	662	641
9	653	647	623	610	636	522	679	541	656	630	649	637
10	661	652	631	592	706	584	581	502	664	623	656	644
11	685	661	605	590	714	703	634	551	639	549	673	658
12	693	675	611	602	712	668	652	618	613	536	679	673
13	698	686	615	609	656	475	647	609	629	564	684	675
14	704	677	619	610	553	529	639	596	620	319	675	623
15	697	668	631	595	580	531	634	604	462	231	662	639
16	685	673	621	597	592	577	646	615	348	253	693	653
17	711	687	614	589	586	417	681	567	348	324	720	697
18	729	665	620	597	424	396	632	503	402	351	721	707
19	684	630	614	599	474	423	664	634	459	413	729	706
20	655	633	603	583	511	476	661	586	496	463	703	616
21	666	577	598	585	528	510	609	550	543	498	633	612
22	602	499	582	555	699	527	618	575	566	539	662	637
23	578	506	576	561	705	691	636	584	593	566	667	641
24	652	537	575	560	711	694	586	504	604	595	656	580
25	663	631	592	559	709	700	499	426	619	609	682	630
26	643	594	596	547	707	692	491	371	631	623	670	566
27	615	570	589	567	687	660	516	413	636	553	721	657
28	579	570	581	567	671	647	573	521	612	572	696	620
29	594	582	568	550	702	638	602	571	617	596	680	642
30	598	583	555	529	658	635	606	560	621	578	677	660
31	---	---	551	527	---	---	620	590	623	584	---	---
MONTH	729	499	638	527	714	387	702	371	664	231	729	566

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	10.5	9.5	5.5	4.0	3.5	1.5	5.0	3.0	7.0	5.0
2	16.5	14.5	12.5	10.5	5.5	4.0	2.5	1.5	5.0	4.0	7.0	6.0
3	16.5	15.5	12.0	10.5	6.0	5.5	3.0	1.5	4.0	3.0	8.5	7.5
4	17.0	16.5	10.5	10.0	5.0	3.5	2.5	1.0	3.0	2.0	9.0	8.5
5	16.5	16.0	10.5	9.5	4.0	3.5	1.0	0.0	5.0	4.0	10.0	8.5
6	16.5	15.5	10.5	9.0	3.5	1.5	0.5	0.0	5.0	4.0	10.5	8.5
7	16.0	15.0	11.0	10.5	1.5	0.5	0.5	0.0	4.0	3.0	12.0	10.5
8	15.5	14.0	10.5	9.5	2.0	1.0	0.5	0.0	3.0	0.5	11.5	9.5
9	14.5	13.5	9.5	9.0	2.5	2.0	0.0	0.0	1.0	0.0	10.5	8.5
10	14.0	12.0	9.0	9.0	2.5	0.5	0.0	0.0	0.0	0.0	10.5	8.0
11	14.5	13.5	9.0	9.0	0.0	0.0	0.0	0.0	0.5	0.0	12.5	10.5
12	15.5	14.5	9.0	9.0	1.0	0.0	0.0	0.0	1.5	0.0	12.0	9.5
13	15.0	14.0	9.0	8.0	1.0	0.5	0.0	0.0	2.0	1.0	10.5	8.5
14	14.5	13.5	8.0	7.0	1.5	1.0	0.5	0.0	3.0	2.0	13.0	10.5
15	13.5	12.0	7.0	5.5	1.5	1.0	1.5	1.0	2.0	1.5	13.0	11.5
16	13.5	12.5	5.5	5.5	0.5	0.0	2.5	1.0	2.0	0.0	12.0	10.5
17	13.0	11.5	6.0	5.5	0.0	0.0	4.5	2.5	0.5	0.0	10.0	5.5
18	11.5	9.5	6.5	6.0	0.0	0.0	6.5	4.5	1.5	0.0	6.0	4.5
19	9.5	8.0	6.0	5.5	1.5	0.0	5.5	4.0	3.5	0.5	7.0	5.0
20	9.0	7.0	6.0	5.5	2.0	1.5	4.0	3.0	3.5	2.0	6.5	6.0
21	9.5	8.5	6.5	6.0	3.0	2.0	3.5	2.5	3.5	2.0	7.0	5.0
22	11.5	9.5	6.5	6.0	4.0	3.5	4.0	3.0	3.5	1.5	8.0	5.5
23	12.0	11.5	6.0	5.0	3.5	3.5	3.0	1.5	5.0	2.0	8.5	6.5
24	11.0	10.5	5.5	4.0	4.0	3.5	2.5	1.5	6.0	3.0	10.0	7.0
25	10.5	9.5	5.0	5.0	4.0	3.5	3.5	2.0	6.5	4.0	10.0	9.0
26	10.0	8.5	5.0	5.0	3.5	2.0	3.5	3.0	6.0	3.5	9.5	9.0
27	10.0	8.0	5.0	4.5	2.5	1.5	5.0	4.0	5.0	3.0	10.0	8.0
28	10.5	10.0	5.0	4.5	2.5	1.5	4.5	2.0	6.0	3.0	10.5	9.0
29	11.0	10.5	4.5	4.0	4.0	3.0	3.0	1.5	---	---	10.5	10.0
30	10.5	9.5	5.0	4.0	6.0	4.0	2.0	1.5	---	---	11.5	10.0
31	10.0	9.5	---	---	5.0	3.5	2.5	1.0	---	---	11.0	10.0
MONTH	17.0	7.0	12.5	4.0	6.0	0.0	6.5	0.0	6.5	0.0	13.0	4.5

WABASH RIVER BASIN

03335000 Wildcat Creek near Lafayette, Ind.—Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.5	17.5	15.0	21.5	16.5	26.0	21.0	24.5	23.0	27.5	24.5
2	10.5	9.0	17.5	14.5	22.5	18.0	27.5	22.5	23.5	21.5	28.0	24.5
3	9.0	8.5	15.5	12.0	24.5	19.5	26.5	24.0	25.0	21.0	28.0	25.0
4	8.5	8.0	16.5	12.0	23.5	20.0	25.5	22.5	25.5	21.5	27.0	24.5
5	8.5	7.0	16.5	12.5	20.5	18.5	27.0	22.0	26.0	22.5	25.0	23.5
6	11.0	7.5	15.0	13.0	21.0	18.5	27.5	22.5	26.5	23.0	24.5	21.5
7	11.0	9.5	14.5	13.5	22.0	18.5	28.0	23.5	27.0	23.0	22.5	19.5
8	12.5	9.5	17.0	13.5	23.5	20.0	28.0	24.0	28.5	24.5	20.5	19.5
9	11.0	8.5	19.5	15.5	24.5	20.5	29.5	25.5	27.0	25.5	20.0	19.0
10	8.5	6.5	20.5	17.0	26.5	22.0	29.5	26.0	28.0	24.5	21.0	17.5
11	8.5	5.0	20.0	17.0	26.0	22.5	27.5	24.0	28.5	24.5	21.0	18.5
12	8.0	7.0	18.0	15.5	25.0	22.5	27.0	22.0	26.0	25.0	20.0	17.0
13	10.0	6.0	16.0	14.0	24.5	21.5	28.0	23.0	27.0	23.0	20.0	17.0
14	11.5	8.0	15.5	13.0	24.5	20.5	28.5	24.5	25.5	22.0	20.5	18.0
15	13.0	9.0	16.5	11.5	23.0	20.5	27.0	23.5	23.0	21.0	20.0	17.0
16	13.0	11.0	16.0	13.0	25.0	20.5	27.0	22.0	24.0	21.5	18.5	17.5
17	13.0	9.5	15.0	12.5	24.0	21.0	26.5	22.5	23.5	21.5	17.5	16.0
18	14.0	12.0	15.0	12.0	24.0	20.0	27.0	23.0	24.0	22.0	17.5	15.0
19	15.0	13.0	16.0	13.5	24.5	22.0	27.0	23.0	24.0	22.5	16.5	14.0
20	17.0	14.5	18.0	14.0	26.0	22.0	26.5	24.5	25.5	23.0	17.5	15.0
21	16.5	15.0	19.0	15.5	25.0	21.5	25.0	23.5	24.0	21.5	18.0	15.0
22	16.5	15.0	19.0	16.5	24.5	21.5	24.0	23.0	23.5	20.5	19.5	17.5
23	16.5	14.5	18.5	17.5	24.5	20.5	25.0	22.5	22.5	19.5	19.5	16.5
24	17.0	14.0	20.5	16.5	25.0	21.0	25.5	23.5	22.0	20.5	20.5	17.0
25	16.0	14.5	21.5	16.5	25.5	21.5	27.0	24.0	24.5	21.0	22.0	19.5
26	15.5	13.5	21.0	18.0	24.5	22.0	26.0	24.0	26.5	23.0	23.0	20.0
27	14.0	12.5	20.0	18.5	24.5	21.5	27.0	24.0	28.0	24.5	21.5	20.5
28	14.5	11.0	18.5	17.0	23.5	21.0	26.5	24.0	28.0	25.0	22.5	20.5
29	15.5	12.0	18.0	16.5	23.5	19.5	25.5	22.5	27.5	25.0	22.0	21.0
30	16.0	13.5	17.5	15.5	24.5	20.5	25.5	23.0	26.0	24.5	22.0	20.0
31	---	---	19.5	15.0	---	---	26.5	23.5	26.5	23.5	---	---
MONTH	17.0	5.0	21.5	11.5	26.5	16.5	29.5	21.0	28.5	19.5	28.0	14.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
OCT.					
17...	1620	13.0	701	21	40
NOV.					
16...	1515	5.5	4970	207	2780
MAR.					
02...	1010	5.0	435	21	25
APR.					
05...	1300	7.0	1500	79	320
MAY					
09...	1100	15.5	622	30	50
JULY					
31...	1220	23.5	361	66	64
SEP.					
04...	1510	26.0	207	44	25

03335500 Wabash River at Lafayette, Ind.

LOCATION.—Lat 40°25'19", long 86°53'49", in NE 1/4 SW 1/4 sec.20, T.23 N., R.4 W., Tippecanoe County, on right bank 20 ft (6 m) downstream from Brown Street bridge in Lafayette, 5.1 miles (8.2 km) downstream from Wildcat Creek, and at mile 311.9 (501.8 km).

DRAINAGE AREA.—7,267 sq mi (18,822 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: February 1901 to January 1902, March to December 1902, January to May 1903 (gage heights only), October 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at present site since October 1913 are contained in reports of U.S. Weather Bureau.

WATER TEMPERATURE: July 1954 to September 1964, August 1967 to current year.

SEDIMENT DISCHARGE: February 1965 to June 1968 (partial-record station).

GAGE.—Water-stage recorder and temperature recorder. Datum of gage is 504.14 ft (153.662 m) above mean sea level. Prior to May 2, 1903, nonrecording gage 0.5 mile (0.8 km) upstream at different datum. Oct. 7, 1923, to Nov. 20, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—50 years (1923 to current year), 6,335 cfs (179.4 cu m/s), 11.68 in/yr (297 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24,200	6,740	15,600	39,500	9,980	4,580	19,100	14,900	7,600	7,010	9,020	2,610
2	17,100	10,200	14,000	30,800	11,700	4,420	20,900	12,800	6,160	6,240	8,220	2,520
3	13,200	20,700	12,300	22,400	19,600	4,550	17,400	11,200	5,710	4,950	6,270	2,430
4	13,000	20,300	11,200	21,800	20,000	4,820	16,200	11,600	6,130	4,240	4,850	2,220
5	14,600	16,200	10,900	23,100	16,000	7,080	16,500	11,200	19,200	4,030	4,000	2,170
6	15,000	14,400	12,000	17,900	14,500	11,200	15,400	9,700	24,500	4,230	3,470	2,200
7	13,500	14,800	16,300	14,000	14,900	11,100	14,800	8,780	21,900	4,130	3,030	2,150
8	12,800	17,700	17,100	11,500	14,700	10,300	14,400	7,340	19,300	3,720	2,780	2,050
9	11,600	19,100	14,600	9,800	13,100	9,700	13,500	6,060	16,400	3,510	2,610	2,050
10	9,170	15,900	11,500	8,200	10,800	9,800	13,500	6,300	14,800	3,190	2,340	1,940
11	9,740	13,800	11,200	7,600	8,100	15,000	13,400	6,400	14,500	2,980	2,210	1,860
12	11,300	13,600	12,500	8,000	6,690	24,800	14,100	5,600	13,400	2,680	2,270	1,720
13	12,400	15,300	19,900	9,500	6,120	23,900	16,100	5,390	14,600	2,470	2,490	1,640
14	12,000	25,300	23,800	10,600	5,920	20,700	18,100	5,340	13,500	2,440	2,870	2,060
15	10,900	33,400	18,700	11,300	6,030	23,100	15,400	5,080	12,200	2,360	8,150	1,850
16	9,730	31,400	13,000	13,500	6,030	23,300	14,600	4,740	10,300	2,240	13,700	1,810
17	9,190	26,800	10,000	13,100	5,890	23,400	16,800	4,590	10,100	2,010	13,800	1,770
18	8,820	23,600	12,000	11,200	5,510	27,900	15,700	4,250	11,400	1,910	13,900	2,250
19	8,160	21,500	15,100	10,200	5,400	27,200	14,000	4,200	8,840	1,890	11,200	1,900
20	6,510	20,400	18,000	9,580	5,410	24,900	17,400	4,460	7,200	2,020	9,660	1,970
21	5,750	20,300	16,600	8,420	5,440	22,600	15,900	4,600	6,200	2,570	7,710	1,990
22	5,590	20,700	16,600	8,500	5,910	19,700	20,400	4,580	5,190	2,860	8,680	2,210
23	8,510	18,900	15,800	12,700	5,810	17,200	26,100	4,710	4,820	3,280	7,790	2,220
24	11,400	17,900	15,400	14,600	5,330	15,700	24,800	4,760	4,500	3,690	6,880	2,200
25	11,000	17,600	15,400	12,600	5,290	15,500	19,200	4,480	4,060	4,520	5,280	2,290
26	9,750	18,100	16,700	11,000	4,960	22,800	15,500	4,140	3,840	6,130	4,600	2,380
27	8,430	18,100	15,500	11,300	4,780	25,800	13,300	4,020	4,050	5,960	4,250	2,270
28	7,130	17,900	13,800	12,400	4,770	21,500	14,200	4,350	4,720	4,930	3,930	2,230
29	7,010	17,300	12,800	13,300	-----	17,800	15,400	5,220	6,940	4,160	3,530	2,460
30	6,650	16,000	20,400	12,700	-----	17,000	15,400	7,760	6,940	3,570	3,160	2,540
31	6,760	-----	35,600	11,500	-----	16,800	-----	8,920	-----	5,550	2,860	-----
TOTAL	329,900	563,940	484,300	432,600	248,670	524,150	497,900	207,470	309,000	115,470	185,510	63,960
MEAN	10,640	18,800	15,620	13,950	8,881	16,910	16,600	6,693	10,300	3,725	5,984	2,132
MAX	24,200	33,400	35,600	39,500	20,000	27,900	26,100	14,900	24,500	7,010	13,900	2,610
MIN	5,590	6,740	10,000	7,600	4,770	4,420	13,300	4,020	3,840	1,890	2,210	1,640
CFSM	1.46	2.59	2.15	1.92	1.22	2.33	2.28	.92	1.42	.51	.82	.29
IN.	1.69	2.89	2.48	2.21	1.27	2.68	2.55	1.06	1.58	.59	.95	.33
CAL YR 1972	TOTAL 3,400,510	MEAN 9,291	MAX 38,500	MIN 1,150	CFSM 1.28	IN 17.41						
WTR YR 1973	TOTAL 3,962,470	MEAN 10,860	MAX 39,500	MIN 1,640	CFSM 1.49	IN 20.29						

03335500 Wabash River at Lafayette, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 40,700 cfs (1,150 cu m/s) Jan. 1, gage height, 18.34 ft (5.590 m); minimum daily, 1,640 cfs (46.4 cu m/s) Sept. 13.

Period of record: Maximum discharge, 131,000 cfs (3,710 cu m/s) May 19, 1943, gage height, 28.47 ft (8.678 m); minimum daily, 399 cfs (11.3 cu m/s) Sept. 26, 1941.

Flood of Mar. 26, 1913, reached a stage of 32.9 ft (10.03 m), from floodmark determined by U.S. Weather Bureau, discharge, 190,000 cfs (5,380 cu m/s).

WATER TEMPERATURES, Current year: Maximum temperature, 29.0°C July 10; minimum, freezing point in December and January.

Period of record: Maximum temperature, 32.0°C July 30, 31, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs and power development.

REVISIONS (WATER YEARS).--WSP 1335: 1929, 1932-33, 1936. WSP 1505: 1950. WSP 1555: 1928(M). WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.0	11.0	10.0	3.0	2.0	3.0	2.0	4.0	3.0	5.0	3.5
2	18.5	17.0	12.5	10.5	3.0	2.0	3.0	1.5	5.0	4.0	5.0	5.0
3	19.0	18.0	12.5	11.5	3.5	3.0	2.0	1.5	5.0	4.5	6.5	5.0
4	19.0	18.5	12.0	11.5	3.5	2.5	2.0	2.0	4.5	3.5	7.0	6.0
5	19.5	18.0	11.5	11.0	3.0	2.5	2.0	1.5	5.0	4.5	8.0	7.0
6	18.5	18.0	11.5	10.5	3.0	2.5	1.5	0.5	5.5	5.0	9.0	7.0
7	18.5	17.5	12.0	11.0	2.5	1.5	1.0	0.5	5.0	5.0	11.0	9.0
8	18.0	16.5	12.0	11.5	2.0	1.5	0.5	0.0	5.0	4.0	11.0	9.5
9	17.5	16.5	11.5	11.0	2.5	2.0	0.5	0.5	4.5	3.0	11.0	10.0
10	17.0	16.0	11.0	10.5	2.0	0.5	0.5	0.0	3.0	2.5	11.0	9.5
11	16.5	16.0	10.5	10.0	1.0	0.0	0.0	0.0	3.0	2.0	12.0	11.0
12	17.0	16.5	10.5	10.0	0.0	0.0	0.0	0.0	3.0	2.0	12.0	11.0
13	17.0	16.0	10.0	9.0	0.5	0.0	0.0	0.0	3.0	2.5	11.0	10.0
14	16.0	15.5	9.5	8.5	0.5	0.0	0.0	0.0	3.5	3.0	12.0	11.0
15	15.5	14.5	8.5	7.0	0.0	0.0	0.0	0.0	3.5	3.0	12.5	11.5
16	14.5	14.0	7.5	6.0	0.0	0.0	1.0	0.0	3.0	2.5	12.5	12.0
17	15.0	13.5	6.5	5.5	0.0	0.0	1.5	0.5	3.0	1.5	12.0	9.0
18	14.5	13.0	6.5	5.5	0.0	0.0	4.0	1.5	2.5	1.5	9.0	7.5
19	13.0	12.0	5.5	5.0	0.0	0.0	4.5	3.0	4.0	2.0	8.5	7.0
20	12.5	11.5	5.5	5.0	1.0	0.0	3.5	3.0	4.0	3.5	8.5	7.5
21	12.5	12.0	5.5	5.5	1.5	1.0	3.0	2.5	4.0	4.0	8.0	7.0
22	13.5	12.5	5.5	5.0	2.5	1.5	3.0	2.5	4.0	3.0	8.5	7.0
23	14.0	13.5	5.0	4.5	2.5	2.0	3.0	2.5	4.0	3.0	9.0	8.0
24	13.5	12.5	5.0	3.5	2.0	1.0	3.0	3.0	4.5	3.5	9.0	8.0
25	12.5	11.5	4.5	4.0	2.5	1.5	3.0	2.5	4.5	4.0	9.0	9.0
26	12.0	10.5	4.5	4.0	2.5	1.5	3.5	2.5	5.0	3.5	9.0	8.0
27	11.5	10.5	4.0	3.5	1.5	0.5	4.0	3.5	3.5	3.0	9.5	8.0
28	11.5	11.0	3.5	3.0	1.5	0.5	4.0	3.5	4.0	3.0	9.5	9.0
29	11.5	11.0	3.0	2.0	1.5	1.0	3.5	2.5	---	---	10.0	9.0
30	11.5	10.5	2.5	2.0	3.0	1.5	3.0	2.0	---	---	10.5	9.5
31	11.0	10.5	---	---	3.0	2.5	3.0	2.0	---	---	10.5	10.0
MONTH	19.5	10.5	12.5	2.0	3.5	0.0	4.5	0.0	5.5	1.5	12.5	3.5

03335500 Wabash River at Lafayette, Ind.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	15.5	14.0	20.0	17.0	23.5	22.5	25.0	24.0	27.5	25.5
2	10.5	10.0	15.5	15.0	21.0	19.0	25.0	23.5	24.5	23.5	28.0	26.5
3	10.0	9.5	15.5	14.0	22.0	20.5	25.5	25.0	24.5	23.0	28.5	26.5
4	10.0	9.5	14.5	13.0	22.0	21.0	25.0	24.0	25.0	24.0	28.5	27.0
5	9.5	8.5	15.0	13.5	21.5	20.0	26.0	24.0	25.5	24.5	27.5	26.5
6	10.0	8.5	15.0	14.5	22.0	21.0	26.5	25.0	26.0	25.0	27.0	25.5
7	10.5	10.0	15.0	14.0	22.0	20.5	27.0	26.0	26.5	25.0	26.0	24.0
8	11.0	9.5	16.5	15.0	22.0	21.0	27.5	26.5	27.5	25.5	24.5	23.5
9	11.0	9.5	17.0	16.0	23.0	21.5	28.5	27.5	27.5	26.5	24.0	22.5
10	9.5	8.5	18.0	16.0	23.5	22.5	29.0	28.0	28.0	26.0	23.5	21.0
11	8.5	7.0	18.0	16.0	24.0	23.0	28.0	26.5	28.0	26.0	23.0	21.5
12	8.5	8.0	17.0	15.5	24.0	23.0	26.5	25.0	27.0	25.5	22.5	20.5
13	9.0	7.0	15.5	14.5	23.5	22.5	27.0	24.5	26.5	24.5	22.5	20.5
14	9.0	7.5	14.5	13.0	23.5	22.5	27.5	25.5	26.0	24.0	22.5	20.5
15	9.5	8.5	15.0	13.0	23.0	22.5	27.5	26.0	24.0	23.0	22.5	21.0
16	10.0	9.5	15.0	14.0	24.5	23.0	26.5	24.5	23.5	22.5	22.0	21.0
17	10.5	9.5	14.5	13.5	24.5	23.5	27.0	25.0	24.5	23.0	21.0	19.0
18	12.0	10.5	14.5	13.5	26.0	24.0	27.5	25.5	25.0	24.0	19.5	18.0
19	13.0	12.0	15.0	14.5	26.0	24.5	27.5	25.5	25.0	24.5	19.0	17.5
20	14.5	13.0	17.0	15.0	25.5	24.5	27.5	26.0	25.0	24.0	20.0	18.5
21	15.5	14.5	17.5	17.0	24.5	24.0	26.5	25.0	25.0	24.0	20.5	19.0
22	16.0	15.0	18.0	17.5	25.0	24.0	26.5	25.0	24.5	23.5	22.0	20.5
23	16.5	15.0	18.0	17.5	25.0	24.0	26.0	24.5	23.5	23.0	22.0	20.5
24	17.0	15.0	19.0	17.0	25.5	24.0	26.5	25.5	23.5	23.0	22.5	20.5
25	17.0	16.0	19.5	18.5	25.5	24.5	27.5	26.0	24.5	23.0	23.5	22.0
26	16.5	15.5	19.5	18.5	25.5	24.5	27.5	26.5	26.5	24.5	24.0	22.5
27	16.0	14.5	19.0	18.5	24.5	23.0	26.5	25.5	27.5	26.0	23.5	23.0
28	14.5	13.5	18.5	17.0	24.0	23.0	27.0	26.0	28.0	26.5	24.0	23.0
29	13.5	12.5	17.5	17.0	23.5	22.0	26.0	24.5	28.0	26.0	24.0	23.0
30	14.0	13.0	17.5	16.5	23.0	21.5	25.5	25.0	27.5	25.5	23.5	22.5
31	---	---	18.0	15.5	---	---	25.5	24.5	26.5	25.0	---	---
MONTH	17.0	7.0	19.5	13.0	26.0	17.0	29.0	22.5	28.0	22.5	28.5	17.5

WABASH RIVER BASIN

03335690 Mud Pine Creek near Oxford, Ind.

LOCATION.—Lat 40°31'24", long 87°20'30", in NE 1/4 SE 1/4 sec.17, T.24 N., R.8 W., Benton County, on right bank 5 ft (2 m) downstream from county road bridge, 0.3 mile (0.5 km) north of Chase, 2 miles (3 km) east of Boswell, and 5 miles (8 km) west of Oxford.

DRAINAGE AREA.—39.4 sq mi (102.0 sq km).

PERIOD OF RECORD.—June 1971 to current year.

GAGE.—Water-stage recorder. Datum of gage is 718.00 ft (218.846 m) above mean sea level.

EXTREMES.—Current year: Maximum discharge, 930 cfs (26.3 cu m/s) Dec. 30, gage height, 8.75 ft (2.667 m); minimum daily, 0.79 cfs (0.022 cu m/s) Sept. 12, 13, 16, 23, 24.

Period of record: Maximum discharge, 1,140 cfs (32.3 cu m/s) July 9, 1971, gage height, 9.46 ft (2.883 m); minimum daily, 0.25 cfs (0.007 cu m/s) Sept. 24, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	34	54	211	49	16	527	51	48	20	252	2.7
2	65	164	49	147	90	17	211	50	41	18	123	2.4
3	54	114	42	139	96	21	165	44	39	17	83	1.9
4	47	82	40	178	77	23	136	40	72	18	55	1.7
5	39	67	39	110	68	44	113	37	110	18	36	1.3
6	36	58	134	80	60	47	95	36	73	15	25	1.2
7	31	55	82	63	53	48	80	35	55	14	19	1.0
8	28	52	64	55	47	41	68	34	45	14	15	1.0
9	21	48	51	47	41	41	68	30	41	11	12	1.2
10	19	47	43	41	37	56	62	29	37	9.9	10	1.0
11	23	40	37	36	35	177	55	26	33	7.6	9.1	.90
12	25	38	84	31	31	116	54	25	36	6.6	9.5	.79
13	23	92	181	28	28	84	47	23	56	6.6	7.6	.79
14	22	295	105	25	28	95	44	22	33	5.4	70	2.7
15	17	183	75	23	25	88	42	22	34	4.8	67	1.3
16	21	133	56	25	24	71	52	22	39	4.2	33	.79
17	16	102	42	36	22	142	57	20	185	3.6	21	1.2
18	13	82	39	54	24	128	51	20	82	3.0	16	1.2
19	12	71	39	85	20	105	54	24	79	2.7	13	.90
20	13	66	54	51	20	84	67	18	55	4.2	11	.90
21	15	75	70	44	19	69	214	17	44	9.9	8.7	.90
22	31	75	59	96	19	59	480	18	39	5.4	7.6	.90
23	82	67	48	102	18	53	226	18	33	3.9	6.6	.79
24	60	59	47	59	16	50	151	17	30	37	6.6	.79
25	47	58	55	50	16	128	113	17	27	20	6.0	1.0
26	42	61	51	52	15	149	85	15	26	109	5.1	1.9
27	36	59	47	58	15	100	69	18	35	46	4.2	1.0
28	33	60	44	71	16	79	58	43	55	22	3.6	.90
29	30	55	110	66	-----	81	51	53	30	14	3.0	1.7
30	27	55	567	55	-----	77	51	58	23	11	5.4	1.5
31	28	-----	532	47	-----	203	-----	63	-----	183	4.2	-----
TOTAL	1,047	2,447	2,940	2,165	1,009	2,492	3,546	945	1,535	664.8	948.2	38.25
MEAN	33.8	81.6	94.8	69.8	36.0	80.4	118	30.5	51.2	21.4	30.6	1.28
MAX	91	295	567	211	96	203	527	63	185	183	252	2.7
MIN	12	34	37	23	15	16	42	15	23	2.7	3.0	.79
CFSM	.86	2.07	2.41	1.77	.91	2.04	2.99	.77	1.30	.54	.78	.03
IN.	.99	2.31	2.78	2.04	.95	2.35	3.35	.89	1.45	.63	.90	.04

CAL YR 1972 TOTAL 13,529.40 MEAN 37.0 MAX 567 MIN .58 CFSM .94 IN 12.77
WTR YR 1973 TOTAL 19,777.25 MEAN 54.2 MAX 567 MIN .79 CFSM 1.38 IN 18.67

PEAK DISCHARGE (BASE, 250 CFS) REVISED

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0300	6.44	379	04-22	1100	8.00	720
12-30	2300	8.75	930	06-17	0300	5.85	280
04-01	0600	8.39	829	08-01	0200	6.82	454

03335700 Big Pine Creek near Williamsport, Ind.

LOCATION.—Lat 40°19'03", long 87°17'26", in SW 1/4 SE 1/4 sec.26, T.22 N., R.8 W., Warren County, on downstream side of county road bridge, 1.6 miles (2.6 km) north of city limits of Williamsport, and 2.5 miles (4.0 km) upstream from mouth.

DRAINAGE AREA.—323 sq mi (837 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: October 1955 to current year.

CHEMICAL ANALYSES: July 1970 to current year.

WATER TEMPERATURE: November 1970 to current year.

GAGE.—Water-stage recorder and multi-parameter monitor. Datum of gage is 511.68 ft (155.960 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to May 19, 1967, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.—18 years, 250 cfs (7.080 cu m/s), 10.51 in/yr (267 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	894	195	356	2,780	383	153	2,290	374	513	183	640	43
2	547	835	325	1,730	585	156	1,890	362	400	162	468	37
3	364	951	303	1,320	786	171	1,290	332	360	150	277	33
4	293	783	281	1,520	680	180	960	305	595	159	195	31
5	250	535	271	1,230	570	293	786	282	1,070	148	148	30
6	218	430	601	818	500	525	662	272	960	130	122	30
7	196	392	588	590	451	500	583	265	710	120	105	28
8	180	379	452	487	415	433	521	261	471	112	92	29
9	158	346	372	380	330	379	475	245	377	105	82	31
10	135	331	314	340	300	437	467	228	326	118	74	30
11	140	312	279	310	280	1,060	408	210	292	96	70	29
12	193	275	609	280	260	1,090	394	198	269	86	74	28
13	219	542	1,280	260	240	810	373	189	592	82	72	27
14	191	1,720	1,010	240	230	996	357	183	389	76	78	49
15	167	1,710	672	220	249	978	344	177	298	72	293	37
16	147	1,340	420	224	190	774	366	174	296	66	204	30
17	148	900	300	261	180	1,090	474	171	1,060	62	128	28
18	132	645	300	345	217	1,170	480	159	835	58	98	28
19	120	535	357	570	204	1,000	457	174	711	57	82	27
20	111	496	542	505	195	774	523	177	513	84	74	26
21	112	511	560	379	186	620	1,100	153	365	207	66	25
22	142	526	517	550	174	515	2,380	148	307	130	57	25
23	339	472	421	750	186	451	2,440	150	266	94	54	25
24	458	419	373	540	171	410	1,630	145	242	224	54	25
25	341	394	417	415	165	822	1,030	145	217	177	50	28
26	283	415	397	388	165	1,400	713	140	207	525	49	28
27	246	413	348	415	156	1,100	568	153	210	388	46	27
28	223	408	332	482	153	768	475	435	333	220	43	27
29	207	387	839	545	-----	670	407	770	301	148	40	31
30	187	368	3,300	473	-----	635	395	747	217	125	43	36
31	180	-----	4,580	406	-----	969	-----	643	-----	148	46	-----
TOTAL	7,521	17,965	21,716	19,753	8,601	21,329	25,238	8,367	13,702	4,512	3,924	908
MEAN	243	599	701	637	307	688	841	270	457	146	127	30.3
MAX	894	1,720	4,580	2,780	786	1,400	2,440	770	1,070	525	640	49
MIN	111	195	271	220	153	153	344	140	207	57	40	25
CFSM	.75	1.85	2.17	1.97	.95	2.13	2.60	.84	1.41	.45	.39	.09
IN.	.87	2.07	2.50	2.27	.99	2.46	2.91	.96	1.58	.52	.45	.10

CAL YR 1972 TOTAL 106,626 MEAN 291 MAX 4,580 MIN 21 CFSM .90 IN 12.28
WTR YR 1973 TOTAL 153,536 MEAN 421 MAX 4,580 MIN 25 CFSM 1.30 IN 17.68

PEAK DISCHARGE (BASE, 2,800 CFS).—Dec. 30 (1600) 4,910 cfs (10.74 ft); Apr. 22 (1200) 3,060 cfs (8.82 ft).

WABASH RIVER BASIN

03335700 Big Pine Creek near Williamsport, Ind.—Continued

EXTREMES.—WATER DISCHARGE, Current year: Maximum discharge, 4,910 cfs (139 cu m/s) Dec. 30, gage height, 10.74 ft (3.274 m); minimum daily, 25 cfs (0.71 cu m/s) Sept. 21-24.

Period of record: Maximum discharge, 12,600 cfs (357 cu m/s) Feb. 10, 1959, from rating curve extended above 6,000 cfs (170 cu m/s) on basis of contracted-opening measurement, gage height, 16.00 ft (4.877 m), from floodmark; minimum daily, 6.5 cfs (0.18 cu m/s) Oct. 6-8, 1966.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 725 micromhos Nov. 25; minimum, 237 micromhos Dec. 30.

Period of record (1971-73): Maximum conductance, 812 micromhos Jan. 17, 1972; minimum, 185 micromhos Sept. 8, 1972.

WATER TEMPERATURE, Current year: Maximum temperature, 30.5°C July 9, Aug. 27; minimum, freezing point on many days during December to February.

Period of record: Maximum temperature, 30.5°C Aug. 18, 1972, July 9, Aug. 27, 1973; minimum, freezing point on many days during most winter periods.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	605	574	600	573	720	706	412	309	612	604	604	598
2	647	582	609	495	718	707	471	412	606	585	606	598
3	647	639	603	588	710	708	496	411	583	578	610	602
4	640	635	630	601	709	701	458	407	594	582	616	606
5	684	636	644	625	703	692	519	454	606	594	613	594
6	691	682	645	642	688	622	555	516	612	606	622	604
7	690	669	644	638	674	650	571	550	614	612	621	606
8	673	667	639	633	686	673	585	571	614	612	628	622
9	680	671	641	635	693	687	606	588	627	600	642	627
10	677	668	639	633	697	692	630	609	633	608	631	591
11	672	644	635	629	715	690	646	627	631	600	579	482
12	664	650	630	627	714	380	653	637	627	612	569	545
13	665	643	634	448	547	376	647	628	622	620	603	570
14	668	658	475	428	580	528	634	616	622	618	606	403
15	680	661	495	456	577	555	619	607	620	614	566	527
16	674	664	560	515	601	557	622	619	620	612	583	561
17	662	650	605	578	635	579	637	628	639	608	565	510
18	701	657	634	624	637	607	640	565	633	622	542	516
19	667	656	663	653	612	523	567	499	622	614	570	542
20	659	641	684	679	513	439	528	509	618	610	590	570
21	647	640	712	704	529	478	567	545	614	608	601	590
22	643	611	714	709	558	522	584	502	614	608	610	601
23	616	604	716	707	589	561	516	499	618	610	613	607
24	604	586	717	712	616	598	557	510	618	608	616	601
25	611	596	725	719	609	597	588	563	612	604	618	400
26	612	605	721	712	623	605	600	594	612	604	450	350
27	612	603	722	714	637	625	606	592	610	600	480	420
28	606	600	723	718	644	641	606	598	606	598	520	470
29	604	597	721	716	643	285	598	596	---	---	560	530
30	604	594	719	705	343	237	606	598	---	---	580	560
31	604	597	---	---	310	275	610	608	---	---	590	500
MONTH	701	574	725	428	720	237	653	309	639	578	642	350

0335700 Big Pine Creek near Williamsport, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	480	400	603	598	547	540	633	628	580	310	596	570
2	510	460	608	595	554	547	636	628	514	393	603	580
3	525	500	608	597	554	547	630	619	562	516	603	585
4	543	520	607	598	547	323	625	603	588	559	605	585
5	564	551	606	593	461	364	622	605	608	588	616	597
6	582	574	608	597	505	467	616	605	619	597	645	598
7	593	587	615	600	542	507	614	598	620	596	608	584
8	601	598	615	607	559	547	603	585	583	559	603	---
9	608	597	618	579	582	562	592	568	570	562	594	---
10	605	600	610	563	582	577	577	538	575	547	600	---
11	611	606	595	557	577	572	584	572	570	537	597	---
12	609	601	587	554	575	569	582	575	549	528	600	---
13	609	601	582	559	569	362	589	573	562	547	600	---
14	612	599	576	553	507	411	592	578	555	522	547	482
15	613	597	570	549	535	509	589	576	571	391	571	---
16	610	561	568	546	552	533	589	567	524	416	584	---
17	583	567	569	550	517	275	587	563	562	527	587	---
18	590	581	572	553	474	375	589	565	581	555	588	---
19	586	567	567	551	474	392	592	563	587	569	589	---
20	572	563	573	552	509	458	569	526	593	569	594	---
21	572	423	564	541	600	515	544	409	583	562	598	---
22	486	333	570	537	607	593	544	475	606	558	609	---
23	442	383	570	544	598	590	592	551	593	550	587	---
24	545	465	567	546	594	586	580	422	588	392	580	---
25	593	565	564	535	593	585	593	525	587	558	576	524
26	611	600	570	543	593	581	576	466	593	564	574	---
27	602	597	553	511	587	577	550	508	593	560	599	---
28	604	602	514	422	599	478	586	553	594	563	612	---
29	608	602	519	437	531	474	597	570	592	556	600	563
30	602	595	540	519	627	530	588	579	576	554	589	---
31	---	---	545	536	---	---	621	496	585	555	---	---
MONTH	613	333	618	422	627	275	636	409	620	310	645	---

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM
OCT. 18...	1400	128	8.0	60	0	32	27	81	39	7.8	.2	4
NOV. 15...	1155	1690	8.2	900	50	98	11	65	22	4.2	.1	3
DEC. 12...	1325	311	8.1	130	19	22	16	94	32	6.9	.2	4
JAN. 24...	1220	538	8.5	370	40	36	24	79	24	5.1	.1	4
MAR. 05...	1415	297	5.8	210	30	42	42	96	26	6.2	.1	4
APR. 04...	1430	954	8.5	690	110	58	36	78	24	4.7	.1	3
MAY 08...	1500	263	6.1	100	70	46	37	96	24	5.5	.1	3
JUNF 28...	1520	400	6.1	860	660	110	91	83	32	6.7	.2	4
AUG. 01...	1130	810	13	1800	140	200	37	59	26	5.7	.2	5
SEP. 06...	1200	30	10	130	20	24	20	76	35	9.0	.2	5

WABASH RIVER BASIN

03335700 Big Pine Creek near Williamsport, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
OCT. 1A...	660	8.3	10.0	4.5	10	24	5.5	--	--	2.6	264
NOV. 15...	470	6.9	7.0	--	35	33	7.4	--	--	40	162
DEC. 12...	675	8.2	1.0	.0	7	36	8.1	--	--	3.0	241
JAN. 24...	530	7.8	2.0	1.0	15	32	7.2	--	--	5.8	189
MAR. 05...	610	8.3	10.0	14.0	10	26	5.9	--	--	2.2	228
APR. 04...	530	7.0	8.0	6.5	15	35	7.9	--	--	37	190
MAY 08...	610	7.9	16.0	19.0	5	27	6.0	--	--	5.3	215
JUNE 28...	580	8.0	22.0	23.0	10	13	2.9	--	--	4.6	236
AUG. 01...	450	7.5	22.0	23.0	25	24	5.4	1.0	.32	10	166
SEP. 06...	600	8.1	23.0	18.5	5	2.7	.60	.43	.14	3.9	253

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT. 1A...	1.4	322	0	79	22	.3	450	421	156	.61	360	100
NOV. 15...	2.9	198	0	46	19	.2	308	298	1410	.42	250	89
DEC. 12...	.7	294	0	68	20	.2	413	411	347	.56	360	120
JAN. 24...	1.7	230	0	53	20	.2	344	337	500	.47	300	110
MAR. 05...	1.5	278	0	70	19	.2	399	388	320	.54	340	120
APR. 04...	1.3	232	0	55	20	.2	347	341	894	.47	290	100
MAY 08...	1.0	262	0	65	26	.3	386	380	274	.52	340	120
JUNE 28...	1.3	288	0	43	21	.2	398	369	430	.54	350	120
AUG. 01...	2.4	202	0	55	16	.1	290	301	634	.39	260	90
SEP. 06...	2.8	308	0	75	13	.3	374	375	30.3	.51	330	81

03335700 Big Pine Creek near Williamsport, Ind.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	10.5	10.0	7.0	5.5	3.5	2.5	6.0	3.5	7.0	4.0
2	17.5	14.5	13.0	10.5	6.5	5.0	2.5	1.5	6.0	5.5	7.0	6.0
3	18.0	15.5	12.5	10.5	7.0	6.5	3.5	2.0	5.5	3.5	8.5	7.0
4	18.0	16.5	10.5	10.5	6.0	3.5	3.5	2.0	5.5	3.0	9.5	8.5
5	18.0	16.5	11.0	9.5	3.5	3.0	2.0	1.0	6.5	5.0	10.0	9.0
6	17.5	16.0	11.0	9.0	3.5	2.0	1.0	0.0	6.0	5.5	10.5	7.5
7	16.5	14.5	12.0	11.0	2.0	1.0	1.0	0.0	5.5	4.5	13.0	10.0
8	16.0	13.5	11.0	10.0	3.5	1.5	1.0	0.0	4.0	1.0	12.5	9.5
9	15.0	13.0	10.0	9.0	4.0	3.5	0.5	0.0	0.5	0.0	10.5	8.0
10	13.5	12.0	9.5	9.0	3.5	1.0	0.5	0.0	0.5	0.0	11.0	7.5
11	15.0	13.0	9.5	9.0	1.0	0.5	0.0	0.0	1.5	0.0	12.5	10.5
12	16.0	15.0	9.0	8.5	1.5	0.5	0.0	0.0	2.5	0.0	10.5	8.0
13	15.0	14.5	9.0	8.0	2.5	1.5	0.5	0.0	3.0	1.5	10.0	7.0
14	14.5	13.5	8.0	7.5	3.0	2.0	1.0	0.0	4.0	3.0	14.5	10.0
15	13.5	12.5	7.5	7.0	3.5	2.0	2.0	0.5	4.0	2.5	13.0	11.5
16	13.5	12.5	7.5	7.0	2.0	0.0	3.5	1.5	2.5	0.0	11.5	8.5
17	13.0	11.0	7.5	7.5	0.0	0.0	6.0	3.0	0.5	0.0	8.5	5.0
18	11.0	8.0	7.5	7.0	1.0	0.0	8.0	6.0	1.5	0.0	6.5	3.5
19	10.0	7.5	7.0	6.0	2.0	1.0	7.5	5.5	3.5	0.0	8.0	6.0
20	8.5	6.5	6.5	6.0	4.5	2.0	5.5	3.5	4.0	3.0	7.5	6.5
21	10.0	8.5	7.5	6.5	5.5	4.5	3.5	2.5	3.5	2.0	8.0	5.5
22	12.5	10.0	7.5	7.0	5.5	5.0	4.5	3.5	3.5	1.5	9.0	6.0
23	13.0	12.0	7.0	6.0	5.0	5.0	4.0	2.5	5.0	1.5	10.0	7.0
24	12.0	11.0	6.0	5.0	5.5	5.0	3.5	2.0	6.0	2.0	10.0	7.5
25	11.0	10.5	6.0	6.0	5.5	5.0	5.0	2.5	6.5	4.0	10.0	9.0
26	10.5	9.0	6.0	5.5	5.0	3.0	5.5	3.5	6.0	3.5	10.0	8.5
27	10.5	8.5	6.0	5.5	3.0	1.5	6.0	4.5	5.0	2.5	10.0	8.0
28	12.0	10.5	6.0	5.5	3.5	1.5	6.0	3.5	5.5	2.5	10.0	9.0
29	12.0	11.5	5.5	5.0	4.5	3.0	3.5	2.0	---	---	10.5	9.0
30	11.5	10.5	6.5	5.0	5.5	3.0	3.0	1.5	---	---	11.5	9.5
31	11.0	10.0	---	---	6.0	3.5	3.5	2.0	---	---	11.0	10.0
MONTH	18.0	6.5	13.0	5.0	7.0	0.0	8.0	0.0	6.5	0.0	14.5	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.0	17.0	15.5	20.5	16.0	25.0	20.5	23.0	21.5	29.5	25.5
2	10.5	8.5	16.5	14.5	21.0	17.5	28.0	22.0	23.0	20.0	30.0	25.5
3	9.0	7.5	15.5	12.5	23.0	19.0	26.0	23.5	23.5	20.0	29.5	25.5
4	8.5	7.5	16.0	11.0	21.5	19.0	25.0	23.0	25.0	20.5	28.5	25.5
5	9.5	7.0	16.0	12.0	19.0	18.0	27.5	21.5	26.5	22.0	27.5	24.0
6	12.5	8.0	15.0	14.0	20.5	18.5	28.0	22.0	27.5	22.5	26.5	22.5
7	11.5	10.5	14.5	13.0	21.5	18.5	28.5	23.0	28.0	22.5	24.5	20.0
8	13.0	10.0	16.0	14.0	23.0	18.5	29.0	23.5	29.5	24.5	22.0	21.0
9	11.5	8.0	18.5	14.5	25.0	20.0	30.5	25.5	29.5	25.5	21.5	20.5
10	8.0	6.5	20.0	16.0	27.0	21.5	30.0	26.0	30.0	25.0	23.5	19.5
11	8.5	5.0	19.0	16.5	27.5	22.5	28.5	23.5	30.0	24.5	23.0	20.0
12	8.0	7.0	17.5	15.0	26.5	23.0	27.5	21.0	28.0	25.0	22.5	18.5
13	10.5	6.0	15.0	13.0	24.0	21.0	29.0	22.0	28.5	23.0	22.0	18.5
14	12.5	7.5	14.5	12.0	24.0	20.0	28.5	24.0	26.0	22.5	22.5	19.5
15	14.5	10.0	17.0	11.0	21.5	20.5	28.0	23.0	24.0	21.5	22.5	18.5
16	14.5	12.5	16.5	13.0	25.0	20.5	28.0	21.5	24.5	21.0	20.5	19.0
17	13.5	10.0	16.5	12.5	22.0	20.5	26.5	21.0	26.0	21.5	19.0	17.5
18	14.0	12.0	15.0	12.5	23.0	20.0	27.0	21.5	27.0	22.0	19.0	15.5
19	15.5	13.0	18.0	14.0	23.5	20.5	28.0	22.5	27.0	23.0	18.5	15.0
20	18.0	14.5	18.5	14.5	25.0	21.0	27.0	24.0	28.5	24.0	20.0	17.0
21	16.5	15.0	19.5	15.5	24.0	20.5	25.0	22.5	26.0	21.5	20.0	15.0
22	16.5	14.5	19.5	17.5	24.0	20.0	23.5	22.0	25.5	21.0	20.0	17.0
23	17.0	15.0	19.0	18.0	23.5	19.5	26.5	22.0	23.0	21.0	20.0	17.0
24	16.5	14.5	21.0	17.0	25.5	20.5	25.5	22.5	23.0	21.0	22.0	18.5
25	15.0	13.5	23.0	18.5	25.0	21.0	28.0	23.5	26.5	21.5	22.5	19.5
26	14.5	12.5	21.0	18.0	24.0	21.5	26.0	23.5	29.5	23.5	22.5	20.0
27	13.5	11.5	20.0	18.5	25.0	20.5	27.0	22.5	30.5	25.5	22.0	20.5
28	14.5	10.0	18.0	16.5	22.5	21.0	27.0	23.0	30.0	26.0	22.5	20.5
29	16.0	11.5	16.5	15.0	22.0	19.0	26.0	21.0	30.0	25.5	22.0	20.5
30	16.5	14.0	15.0	14.0	23.5	19.5	25.5	22.5	28.0	25.0	22.0	20.0
31	---	---	17.5	13.0	---	---	25.5	23.0	29.0	24.5	---	---
MONTH	18.0	5.0	23.0	11.0	27.5	16.0	30.5	20.5	30.5	20.0	30.0	15.0

03336000 Wabash River at Covington, Ind.

LOCATION.--Lat 40°08'24", long 87°24'20", in NE 1/4 NW 1/4 sec.35, T.20 N., R.9 W., on Fountain-Warren county line, near center of span on downstream side of bridge on U.S. Highway 136 at Covington, 2.9 miles (4.7 km) downstream from Oppossum Run, 3.6 miles (5.8 km) upstream from Spring Creek, and at mile 271.1 (436.2 km).

DRAINAGE AREA.--8,218 sq mi (21,285 sq km) (revised).

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 0.4 mile (0.6 km) downstream January 1927 to December 1930, and at present site since December 1930, are contained in reports of U.S. Weather Bureau.

GAGE.--Nonrecording gage. Datum of gage is 473.97 ft (144.466 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 7,177 cfs (203.3 cu m/s), 11.86 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 40,600 cfs (1,150 cu m/s) Jan. 2, gage height, 22.50 ft (6.858 m); minimum daily, 2,080 cfs (58.9 cu m/s) Sept. 13.

Period of record: Maximum discharge, 147,000 cfs (4,160 cu m/s) May 20, 1943, gage height, 32.44 ft (9.888 m); minimum daily, 487 cfs (13.8 cu m/s) Sept. 29, 1941.

Flood in March 1913 reached a stage of 35.1 ft (10.70 m), from floodmark determined by U.S. Weather Bureau, discharge, 200,000 cfs (5,660 cu m/s).

REMARKS.--Records good. Natural flow of stream affected by reservoirs.

REVISIONS.--WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24,500	7,650	16,700	35,700	12,500	5,400	21,800	17,500	9,980	7,900	8,450	3,100
2	24,600	9,800	16,400	40,300	12,000	5,240	23,700	16,300	8,540	7,760	10,400	2,880
3	20,200	17,000	15,100	38,000	16,500	5,400	24,200	14,100	7,120	6,660	8,660	2,860
4	15,300	21,800	13,100	32,400	20,900	5,270	21,400	13,000	7,020	5,520	6,520	2,670
5	14,400	21,300	12,200	28,600	20,600	6,620	19,700	13,500	15,600	4,920	4,980	2,480
6	15,700	17,500	12,600	26,800	17,400	11,000	18,700	12,000	22,800	4,740	4,200	2,540
7	15,300	16,100	15,000	21,800	16,400	13,200	17,300	11,200	25,200	5,090	3,660	2,480
8	14,100	16,800	18,200	16,200	16,200	12,700	16,800	9,980	24,500	4,400	3,290	2,370
9	13,400	18,700	17,000	12,500	15,500	11,700	16,000	8,190	22,100	4,270	3,140	2,370
10	11,800	19,300	15,100	10,900	13,600	11,400	15,500	7,420	18,500	3,960	2,870	2,250
11	9,590	15,900	12,600	9,010	11,300	14,800	15,200	7,860	16,600	3,700	2,680	2,160
12	9,810	14,400	12,900	8,420	8,570	21,200	15,000	7,260	15,800	3,440	2,610	2,120
13	12,600	15,300	18,600	8,790	7,700	24,800	16,000	6,580	15,600	3,050	2,840	2,080
14	13,000	21,000	23,000	10,600	7,340	26,200	17,900	6,480	16,000	3,000	3,440	2,330
15	12,500	26,400	24,800	11,000	7,230	25,900	18,600	6,240	14,700	2,930	5,960	2,420
16	11,000	30,600	21,200	12,600	6,990	26,100	16,400	5,860	13,300	2,700	12,700	2,260
17	10,200	32,500	14,200	14,600	7,120	26,700	17,900	5,580	12,700	2,740	14,100	2,190
18	9,540	29,600	10,800	13,700	6,540	27,300	18,400	5,270	14,100	2,390	15,000	2,160
19	9,140	26,000	13,000	12,900	6,520	29,100	16,800	4,980	14,300	2,360	13,700	2,610
20	8,380	25,100	18,100	11,900	6,300	29,700	17,600	5,210	11,500	2,460	11,900	2,320
21	6,700	22,900	19,000	11,000	6,420	28,200	19,900	5,380	9,390	3,470	9,980	2,350
22	6,400	22,400	18,100	9,860	6,640	26,000	23,400	5,360	7,740	3,750	8,790	2,360
23	7,420	22,000	17,800	11,800	6,820	22,800	27,500	5,450	6,520	3,520	9,390	2,500
24	10,800	20,300	16,000	15,400	6,410	19,800	30,400	5,460	5,780	5,700	8,540	2,500
25	12,400	19,100	16,400	15,500	6,220	18,200	30,200	5,440	5,460	5,500	7,020	2,560
26	11,500	18,900	17,000	13,300	5,940	21,500	26,000	5,050	4,780	7,490	5,520	2,650
27	10,400	19,100	17,500	12,500	5,620	25,600	20,700	4,780	5,050	9,230	4,980	2,660
28	9,980	19,000	16,100	13,100	5,640	27,500	16,900	5,170	5,160	6,940	4,580	2,560
29	7,520	18,700	14,800	14,300	-----	25,600	16,900	6,180	7,120	5,380	4,200	2,550
30	7,680	18,000	20,600	14,700	-----	22,000	17,500	8,270	7,980	4,650	3,770	2,700
31	7,170	-----	30,000	13,800	-----	20,600	-----	10,000	-----	4,200	3,420	-----
TOTAL	373,050	603,230	523,900	521,980	286,920	597,530	594,300	251,050	370,940	143,820	211,290	74,040
MEAN	12,030	20,110	16,900	16,840	10,250	19,280	19,810	8,098	12,360	4,639	6,816	2,468
MAX	24,600	32,500	30,000	40,300	20,900	29,700	30,400	17,500	25,200	9,230	15,000	3,100
MIN	6,400	7,650	10,800	8,420	5,620	5,240	15,000	4,780	4,780	2,360	2,610	2,080
CFSM	1.46	2.45	2.06	2.05	1.25	2.35	2.41	.99	1.50	.56	.83	.30
IN.	1.69	2.73	2.37	2.36	1.30	2.70	2.69	1.14	1.68	.65	.96	.34
CAL YR 1972	TOTAL 3,786,070		MEAN 10,340		MAX 44,100		MIN 1,410		CFSM 1.26		IN 17.14	
WTR YR 1973	TOTAL 4,552,050		MEAN 12,470		MAX 40,300		MIN 2,080		CFSM 1.52		IN 20.61	

03339000 Vermilion River near Danville, Ill.

LOCATION.—Lat 40°05'53", long 87°35'37", in SE 1/4 NW 1/4 sec.22, T.19 N., R.11 W., Vermilion County, on left bank 1.5 mile (2.4 km) upstream from Stony Creek and 2.5 miles (4.0 km) southeast of Danville.

DRAINAGE AREA.—1,279 sq mi (3,313 sq km).

PERIOD OF RECORD.—October 1914 to September 1921, June 1928 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 503.33 ft (153.42 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 9, 1935, nonrecording gage at site 0.3 mile (0.5 km) upstream at same datum.

AVERAGE DISCHARGE.—52 years, 908 cfs (25.7 cu m/s), 9.64 in/yr (245 mm/yr).

EXTREMES.—Current year: Maximum discharge, 16,600 cfs (470 cu m/s) Apr. 23, gage height, 20.00 ft (6.096 m); minimum, 128 cfs (3.62 cu m/s) Sept. 13.

Period of record: Maximum discharge, 48,700 cfs (1,380 cu m/s) Mar. 13, 1939, gage height, 28.59 ft (8.714 m); minimum daily, 2 cfs (0.057 cu m/s) Oct. 9-14, 1920, Aug. 10, 1930.

REMARKS.—Records good except those for winter periods, which are poor. Flow regulated at times by storage at Lake Vermilion on North Fork Vermilion River, 4.5 miles (7.2 km) above station, usable capacity, 7,440 acre-feet (9.17 cu km) and by Danville sewage-disposal plant.

REVISIONS (WATER YEARS).—WSP 853: 1936(M). WSP 973: 1939. WSP 1305: 1915-16, 1920, 1929. WSP 1335: 1934(m). WSP 1909: 1960, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,310	750	1,530	14,700	1,190	545	6,050	1,900	1,100	1,020	2,500	238
2	1,630	5,330	1,370	9,450	1,820	560	6,100	1,980	1,200	902	1,330	212
3	1,410	6,460	1,320	5,430	2,340	590	4,470	1,860	1,090	812	1,010	194
4	1,370	4,220	1,150	5,420	2,820	635	3,280	1,600	1,370	908	770	182
5	1,090	2,870	1,130	4,710	2,100	1,090	2,740	1,290	5,250	1,150	710	197
6	879	2,120	2,460	3,200	1,960	1,620	2,400	1,290	7,540	1,030	950	182
7	815	1,990	3,450	2,200	1,380	1,720	2,070	1,310	5,950	818	600	155
8	773	1,880	2,290	1,720	1,520	1,600	1,800	1,280	4,570	704	500	158
9	701	1,770	1,770	1,330	1,270	1,530	1,820	1,130	3,480	610	450	179
10	620	1,650	1,490	1,100	998	1,810	2,000	986	1,960	812	400	194
11	575	1,600	1,160	900	1,110	4,910	1,920	938	1,550	565	350	164
12	680	1,710	1,660	790	872	5,760	1,880	854	1,400	485	500	143
13	900	2,250	4,590	760	914	5,150	1,720	830	1,200	425	610	137
14	750	7,700	4,920	750	944	4,130	1,480	800	1,020	380	2,580	460
15	635	8,010	4,070	750	818	4,640	1,400	770	1,050	346	5,250	545
16	520	6,490	3,500	770	746	3,720	1,470	740	1,320	314	2,970	346
17	495	4,410	2,500	858	560	4,160	1,750	728	3,220	286	1,600	262
18	460	3,000	2,000	1,060	680	4,880	1,680	692	5,090	270	1,150	227
19	410	2,460	1,510	2,290	764	4,100	1,690	668	6,310	250	902	212
20	375	2,280	1,910	2,370	692	3,420	2,250	656	6,950	500	740	194
21	370	2,590	2,280	1,750	656	2,510	5,280	605	6,590	2,170	615	176
22	425	2,500	2,290	1,220	620	2,120	13,000	545	4,890	2,780	520	170
23	930	2,210	1,860	2,530	620	1,880	16,000	555	2,550	1,950	425	170
24	2,050	1,780	1,320	2,610	620	1,720	14,300	560	1,930	3,760	385	161
25	1,290	1,810	1,500	1,350	585	2,660	9,750	540	1,540	5,840	355	158
26	996	1,760	1,310	1,680	565	6,850	5,620	530	1,370	4,560	334	152
27	870	2,000	1,160	1,070	555	6,390	3,370	545	2,360	6,000	298	149
28	792	1,880	1,230	1,680	545	3,980	3,000	836	2,170	3,390	270	143
29	738	1,770	2,490	1,960	-----	3,250	2,280	1,740	1,490	1,820	246	215
30	685	1,620	11,000	1,470	-----	3,040	1,930	2,130	1,180	1,470	258	302
31	655	-----	15,900	1,780	-----	3,620	-----	1,430	-----	1,820	242	-----
TOTAL	28,199	88,870	88,120	79,658	30,264	94,590	124,500	32,318	88,690	48,147	29,820	6,377
MFAN	910	2,962	2,843	2,570	1,081	3,051	4,150	1,043	2,956	1,553	962	213
MAX	3,310	8,010	15,900	14,700	2,820	6,850	16,000	2,130	7,540	6,000	5,250	545
MIN	370	750	1,130	750	545	545	1,400	530	1,020	250	242	137
CFSM	.71	2.32	2.22	2.01	.85	2.39	3.24	.82	2.31	1.21	.75	.17
IN.	.82	2.58	2.56	2.32	.88	2.75	3.62	.94	2.58	1.40	.87	.19
CAL YR 1972	TOTAL	471,446	MEAN	1,288	MAX	15,900	MIN	84	CFSM	1.01	IN	13.71
WTR YR 1973	TOTAL	739,553	MEAN	2,026	MAX	16,000	MIN	137	CFSM	1.58	IN	21.51

03339108 East Fork Coal Creek near Hillsboro, Ind.

LOCATION.—Lat 40°06'06", long 87°07'54", in NW 1/4 SW 1/4 sec.8, T.19 N., R.6 W., Fountain County, at center pier on downstream side of bridge on County Road 700 East, 1.5 miles (2.4 km) east of Hillsboro, 3.7 miles (6.0 km) northwest of Waynetown, and 9.6 miles (15.4 km) upstream from mouth.

DRAINAGE AREA.—33.4 sq mi (86.5 sq km).

PERIOD OF RECORD.—September 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 673.76 ft (205.362 m) above mean sea level.

AVERAGE DISCHARGE.—5 years, 36.4 cfs (1.031 cu m/s), 14.80 in/yr (376 mm/yr).

EXTREMES.—Current year: Maximum discharge, 953 cfs (27.0 cu m/s) Dec. 12, gage height, 6.41 ft (1.954 m); minimum daily, 8.2 cfs (0.23 cu m/s) Sept. 7, 13.

Period of record: Maximum discharge, 2,180 cfs (61.7 cu m/s) June 13, 1972, gage height, 9.69 ft (2.954 m); minimum daily, 3.7 cfs (0.10 cu m/s) Sept. 19, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	58	36	103	44	21	63	30	16	16	30	9.7
2	21	296	32	69	69	22	58	30	16	15	18	9.1
3	18	100	30	84	63	24	52	28	15	15	15	8.6
4	17	68	32	139	52	22	48	26	173	18	14	8.6
5	20	53	32	70	46	299	45	25	242	16	13	8.6
6	18	44	101	60	39	117	41	24	93	14	12	8.6
7	16	92	64	50	35	86	39	24	56	13	12	8.2
8	15	89	44	43	32	61	36	25	40	13	11	9.1
9	13	59	37	37	29	77	36	25	32	12	12	9.7
10	12	52	33	33	28	123	35	24	26	12	11	9.1
11	14	45	32	31	27	524	31	24	24	11	10	8.6
12	14	40	284	29	26	126	35	24	27	11	18	8.6
13	13	216	110	27	25	82	31	23	24	11	13	8.2
14	13	280	75	26	26	189	30	22	21	11	306	53
15	12	106	50	25	28	107	29	20	21	11	67	16
16	12	76	40	24	23	81	34	19	25	9.7	36	12
17	11	60	32	26	22	310	36	19	81	9.7	25	11
18	10	51	32	33	25	146	34	19	32	9.7	20	11
19	11	50	60	48	24	108	44	19	70	9.7	17	10
20	11	66	80	35	24	78	106	19	34	15	15	9.7
21	12	67	63	32	23	61	100	18	25	26	13	9.1
22	32	55	53	56	23	54	423	18	22	16	12	9.7
23	48	46	43	55	22	48	139	18	20	13	11	9.7
24	30	41	44	43	21	46	86	18	19	76	12	9.1
25	23	42	48	35	21	192	63	18	18	31	11	10
26	20	46	41	35	22	186	51	18	24	89	11	9.1
27	19	48	36	37	21	99	42	18	26	35	10	8.6
28	19	46	33	45	21	70	37	19	20	21	9.7	9.1
29	19	41	141	45	-----	63	33	20	18	17	9.1	9.7
30	19	39	412	37	-----	55	31	18	16	19	13	9.7
31	20	-----	280	35	-----	56	-----	17	-----	22	11	-----
TOTAL	562	2,372	2,430	1,447	861	3,533	1,868	669	1,276	617.8	797.8	331.2
MEAN	18.1	79.1	78.4	46.7	30.8	114	62.3	21.6	42.5	19.9	25.7	11.0
MAX	48	296	412	139	69	524	423	30	242	89	306	53
MIN	10	39	30	24	21	21	29	17	15	9.7	9.1	8.2
CFSM	.54	2.37	2.35	1.40	.92	3.41	1.87	.65	1.27	.60	.77	.33
IN.	.63	2.64	2.71	1.61	.96	3.93	2.08	.75	1.42	.69	.89	.37

CAL YR 1972 TOTAL 17,238.2 MEAN 47.1 MAX 812 MIN 7.4 CFSM 1.41 IN 19.20
WTR YR 1973 TOTAL 16,764.8 MEAN 45.9 MAX 524 MIN 8.2 CFSM 1.37 IN 18.67

PEAK DISCHARGE (BASE, 700 CFS) REVISED

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-12	2130	6.41	953	06-04	2315	5.70	740
03-11	0715	6.12	866	08-14	0500	5.72	755
04-22	1145	6.16	878				

03339500 Sugar Creek at Crawfordsville, Ind.

LOCATION.--Lat 40°02'56", long 86°53'58", in SW 1/4 NW 1/4 sec.32, T.19 N., R.4 W., Montgomery County, on left bank 327 ft (100 m) upstream from Crawfordsville Electric Light and Power Co.'s dam at Crawfordsville, 0.5 mile (0.8 km) upstream from bridge on State Highway 43, and 1 mile (2 km) downstream from Walnut Fork Sugar Creek.

DRAINAGE AREA.--509 sq mi (1,318 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: June 1938 to current year.
SEDIMENT DISCHARGE: February 1972 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 657.77 ft (200.488 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 470 cfs (13.31 cu m/s), 12.54 in/yr (319 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,900 cfs (195 cu m/s) Nov. 2, gage height, 6.67 ft (2.033 m); minimum daily, 41 cfs (1.16 cu m/s) Sept. 13.

Period of record: Maximum discharge, 26,300 cfs (745 cu m/s) June 28, 1957, gage height, 14.48 ft (4.414 m); minimum daily, 2.4 cfs (0.068 cu m/s) Sept. 24-27, 1941.

Flood in March 1913, reached a stage of 17.3 ft (5.27 m) from information by local resident, discharge, about 36,000 cfs (1,020 cu m/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 973: 1939(M). WSP 1275: Drainage area. WSP 1335: 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,930	514	585	3,240	570	218	1,230	352	145	240	95	76
2	1,190	5,520	509	1,770	2,720	246	1,050	341	135	204	82	65
3	816	6,120	457	1,260	2,700	247	810	328	131	184	76	54
4	755	3,160	428	2,200	1,750	260	703	288	234	188	70	49
5	2,030	1,940	430	1,590	1,280	493	624	267	1,330	200	65	49
6	1,370	1,400	1,310	900	994	888	530	256	1,440	168	62	46
7	942	1,200	2,130	600	785	925	491	253	1,020	144	57	44
8	699	1,760	1,400	450	681	794	455	285	565	129	54	44
9	515	1,330	814	350	517	688	411	291	386	122	62	49
10	390	1,050	620	250	438	1,590	411	263	304	115	76	51
11	379	880	444	230	383	3,920	348	244	263	104	89	46
12	1,120	721	1,240	240	350	3,430	346	229	489	95	604	46
13	916	1,400	4,850	272	352	1,870	332	215	469	89	398	41
14	653	5,240	2,720	276	330	3,350	300	205	277	82	982	325
15	486	4,170	1,560	284	349	4,280	295	198	226	79	1,440	260
16	412	2,310	943	268	311	2,280	341	193	221	76	882	133
17	373	1,590	650	284	247	3,890	816	191	1,020	68	416	92
18	309	1,190	600	300	298	3,570	694	185	1,160	65	272	73
19	273	989	564	676	283	3,240	623	183	693	62	200	65
20	248	1,120	1,190	588	274	2,460	1,230	202	454	82	160	60
21	243	1,270	1,060	434	261	1,740	1,100	187	316	200	126	54
22	325	1,090	995	1,090	244	1,260	2,680	172	261	176	104	54
23	721	876	766	1,750	254	982	3,790	172	229	122	92	54
24	721	728	684	1,020	239	810	2,050	169	206	325	85	54
25	541	659	822	664	226	1,610	1,270	166	186	280	82	68
26	444	682	766	585	228	3,960	876	159	224	428	76	70
27	391	678	620	619	222	3,450	657	154	956	315	70	62
28	362	680	533	790	216	1,990	514	179	766	204	65	51
29	338	665	628	1,090	-----	1,390	421	193	422	148	60	51
30	314	604	2,930	781	-----	1,170	379	170	296	122	76	51
31	306	-----	5,030	594	-----	1,020	-----	156	-----	108	95	-----
TOTAL	20,512	51,536	38,278	25,445	17,502	58,021	25,777	6,846	14,824	4,924	7,073	2,237
MEAN	662	1,718	1,235	821	625	1,872	859	221	494	159	228	74.6
MAX	2,030	6,120	5,030	3,240	2,720	4,280	3,790	352	1,440	428	1,440	325
MIN	243	514	428	230	216	218	295	154	131	62	54	41
CFSM	1.30	3.38	2.43	1.61	1.23	3.68	1.69	.43	.97	.31	.45	.15
IN.	1.50	3.77	2.80	1.86	1.28	4.24	1.88	.50	1.08	.36	.52	.16

CAL YR 1972 TOTAL 253,709 MEAN 693 MAX 8,200 MIN 42 CFSM 1.36 IN 18.54
WTR YR 1973 TOTAL 272,975 MEAN 748 MAX 6,120 MIN 41 CFSM 1.47 IN 19.95

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1900	6.67	6,900	12-31	1000	5.48	5,420	03-17	1200	4.65	4,300
11-14	1100	5.53	5,490	03-11	1600	4.92	4,690	03-26	1900	4.68	4,340
12-13	0400	5.55	5,510	03-14	2100	5.54	5,500	04-23	0100	4.72	4,320

WABASH RIVER BASIN

03339500 Sugar Creek at Crawfordsville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT. 19...	1525	9.5	266	12	8.6	--	--	--
NOV. 02...	1705	14.0	6810	536	9860	38	47	53
17...	0910	6.0	1630	108	475	--	--	--
JAN. 23...	1145	3.0	1880	186	944	53	64	72
MAR. 02...	1335	7.0	242	25	16	--	--	--
APR. 03...	1505	8.0	777	73	153	--	--	--
MAY 07...	1700	14.5	258	15	10	--	--	--
JUNE 26...	1230	25.0	178	70	34	--	--	--
AUG. 02...	0920	21.0	86	55	13	--	--	--
SEP. 05...	1430	25.5	49	36	5.0	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT. 19...	--	--	--	--	--	--	--
NOV. 02...	62	73	77	81	85	90	100
17...	--	--	--	--	--	--	--
JAN. 23...	83	89	93	94	96	100	--
MAR. 02...	--	--	--	--	--	--	--
APR. 03...	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--
JUNE 26...	--	--	--	--	--	--	--
AUG. 02...	--	--	--	--	--	--	--
SEP. 05...	--	--	--	--	--	--	--

03340500 Wabash River at Montezuma, Ind.

LOCATION.--Lat 39°47'33", long 87°22'26", in SE 1/4 NE 1/4 sec.35, T.16 N., R.9 W., Parke County, on downstream side of first pier from left bank of bridge on U.S. Highway 36 at Montezuma, 2.0 miles (3.2 km) upstream from Raccoon Creek, 4.9 miles (7.9 km) downstream from Sugar Creek, and at mile 240 (386 km).

DRAINAGE AREA.--11,118 sq mi (28,796 sq km) (revised).

PERIOD OF RECORD.--October 1927 to current year. July 1924 to September 1927 (gage heights only) in reports of Indiana Department of Conservation.

GAGE.--Water-stage recorder. Datum of gage is 457.75 ft (139.522 m) above mean sea level (levels by Corps of Engineers). Oct. 1, 1927, to July 12, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--46 years, 9,457 cfs (267.8 cu m/s), 11.55 in/yr (293 mm/yr).

EXTREMES.--Current year: Maximum discharge, 56,500 cfs (1,600 cu m/s) Jan. 1, gage height, 23.64 ft (7.205 m); minimum daily, 3,240 cfs (91.8 cu m/s) Sept. 13.

Period of record: Maximum discharge, 184,000 cfs (5,210 cu m/s) May 20, 1943, gage height, 32.83 ft (10.007 m); minimum daily, 571 cfs (16.2 cu m/s) Sept. 24, 1941.

Flood of Mar. 27, 1913, reached a stage of 34.0 ft (10.36 m), from floodmarks, discharge, 230,000 cfs (6,510 cu m/s).

REMARKS.--Records fair. Daily flow is affected at times by the operation of several reservoirs and powerplants.

REVISIONS (WATER YEARS).--WSP 1335: 1929, 1931(M), drainage area. WSP 1505: 1954. WSP 1915: 1954(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29,600	9,330	21,500	48,100	16,600	7,280	29,800	21,600	12,000	10,500	9,830	4,770
2	28,800	19,700	20,400	55,100	17,700	7,090	31,400	20,900	11,100	10,200	12,400	4,470
3	26,300	30,300	19,000	55,400	21,200	7,050	32,000	19,100	9,900	9,900	11,500	4,280
4	21,000	31,400	17,100	51,700	24,700	7,170	30,700	17,300	9,900	9,620	9,240	4,160
5	18,800	29,300	15,900	45,700	25,400	8,800	27,800	16,700	24,000	8,950	7,320	3,930
6	19,300	26,100	17,500	39,300	23,700	13,400	25,400	16,100	29,200	7,740	6,230	3,820
7	14,700	22,400	20,800	34,500	21,200	16,900	23,400	14,800	30,900	7,320	5,440	3,800
8	17,400	22,100	22,200	27,300	20,400	17,000	21,700	14,000	30,900	6,790	4,780	3,720
9	16,000	23,000	21,800	20,100	20,000	16,100	20,800	12,600	29,100	6,130	4,460	3,690
10	14,800	23,300	19,900	16,500	18,200	18,500	19,900	10,900	25,300	5,870	4,250	3,630
11	12,900	22,100	16,900	14,400	15,600	27,500	19,400	10,600	20,700	5,480	3,920	3,460
12	11,500	19,800	17,000	12,700	13,000	33,300	18,900	10,400	18,900	5,000	4,240	3,340
13	13,400	20,100	30,300	12,500	11,100	33,000	19,100	9,560	18,300	4,650	5,040	3,240
14	14,700	31,700	33,200	13,700	10,400	34,500	19,800	9,140	18,400	4,360	8,250	4,700
15	14,400	36,700	32,000	14,800	10,100	39,000	20,900	8,910	17,400	4,250	12,900	5,320
16	13,500	38,000	29,500	15,700	9,750	37,200	20,300	8,530	16,200	4,090	15,800	4,720
17	12,100	38,600	22,300	16,900	9,290	37,900	21,300	8,100	16,900	3,870	16,900	4,030
18	11,300	38,300	16,400	17,100	8,930	39,200	22,000	7,760	19,700	3,710	16,200	3,720
19	10,700	36,700	16,400	17,000	8,820	38,500	21,700	7,190	23,900	3,500	15,700	3,700
20	10,000	34,400	20,800	17,500	8,690	38,000	22,300	7,010	22,100	3,790	13,600	3,770
21	8,930	31,800	24,100	16,100	8,530	37,000	25,200	7,150	19,100	6,900	11,800	3,560
22	7,790	29,800	24,300	14,700	8,440	34,800	32,100	7,190	16,300	8,900	10,000	3,590
23	8,310	28,400	23,600	16,400	8,720	31,600	40,800	7,110	12,900	7,600	9,960	3,650
24	11,300	26,700	22,200	19,500	8,650	27,800	44,200	7,190	10,300	9,770	9,480	3,780
25	14,600	24,700	21,500	19,700	8,170	25,900	46,400	7,190	9,030	13,800	8,530	3,770
26	14,200	23,600	21,500	18,200	7,980	32,500	42,900	6,830	8,140	14,400	6,940	3,790
27	12,800	23,600	21,600	16,400	7,600	36,300	36,300	6,470	9,370	17,600	6,020	3,800
28	11,500	23,500	21,100	16,400	7,340	36,600	28,500	6,540	11,200	14,900	5,420	3,770
29	10,200	23,200	20,300	17,900	-----	35,300	23,500	7,910	10,300	10,500	5,710	3,670
30	9,580	22,500	29,400	18,600	-----	32,600	22,000	9,980	10,800	8,250	5,400	3,780
31	9,220	-----	40,800	18,100	-----	29,300	-----	11,700	-----	7,260	5,200	-----
TOTAL	453,630	811,130	701,300	738,000	380,210	837,090	810,500	336,460	522,240	245,600	272,460	117,430
MEAN	14,630	27,040	22,620	23,810	13,580	27,000	27,020	10,850	17,410	7,923	8,789	3,914
MAX	29,600	38,600	40,800	55,400	25,400	39,200	46,400	21,600	30,900	17,600	16,900	5,320
MIN	7,790	9,330	15,900	12,500	7,340	7,050	18,900	6,470	8,140	3,500	3,920	3,240
CFSM	1.32	2.43	2.03	2.14	1.22	2.43	2.43	.98	1.57	.71	.79	.35
IN.	1.52	2.71	2.35	2.47	-1.27	2.80	2.71	1.13	1.75	.82	.91	.39
CAL YR 1972	TOTAL 4,957,660	MEAN 13,550	MAX 60,000	MIN 2,080	CFSM 1.22	IN 16.59						
WTR YR 1973	TOTAL 6,226,050	MEAN 17,060	MAX 55,400	MIN 3,240	CFSM 1.53	IN 20.83						

03340800 Big Raccoon Creek near Fincastle, Ind.

LOCATION.—Lat 39°48'45", long 86°57'14", in NW 1/4 SW 1/4 sec.22, T.16 N., R.5 W., Putnam County, on left bank at downstream side of county road bridge, 1.6 miles (2.6 km) upstream from Ramp Creek, and 3.1 miles (5.0 km) west of Fincastle.

DRAINAGE AREA.—132 sq mi (342 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: August 1957 to current year. Prior to October 1963, published as Raccoon Creek near Fincastle.

WATER TEMPERATURE: July 1965 to current year.

SEDIMENT DISCHARGE: August 1959 to current year (partial-record station, October 1971 to September 1973).

GAGE.—Water-stage recorder. Datum of gage is 686.03 ft (209.102 m) above mean sea level.

AVERAGE DISCHARGE.—16 years, 131 cfs (3.710 cu m/s), 13.48 in/yr (342 mm/yr).

EXTREMES.—Current year: Maximum discharge, 4,550 cfs (129 cu m/s) Nov. 2, gage height, 12.29 ft (3.746 m); minimum daily, 13 cfs (0.37 cu m/s) Sept. 7, 13.

Period of record: Maximum discharge, 15,100 cfs (428 cu m/s) Jan. 26, 1962; maximum gage height, 15.68 ft (4.779 m) Jan. 26, 1962 (ice jam); minimum daily discharge, 1.8 cfs (0.051 cu m/s) Sept. 16, 17, and Oct. 5, 6, 1964.

Flood of June 28, 1957, reached a stage of 19.10 ft (5.822 m), discharge, 39,900 cfs (1,130 cu m/s), from slope-area measurement.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1909: 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	194	155	656	178	67	259	103	52	89	189	26
2	137	3,220	136	365	1,030	69	235	102	48	71	69	20
3	94	1,990	124	308	675	72	197	96	48	67	48	17
4	103	610	125	719	397	74	177	85	135	392	40	16
5	464	400	131	382	294	133	160	78	499	185	35	14
6	306	296	535	242	236	207	144	74	278	98	30	14
7	207	269	347	180	193	225	136	74	188	68	26	13
8	154	392	230	130	175	220	136	92	125	55	25	14
9	113	285	180	100	142	186	133	84	95	48	29	19
10	80	234	152	85	130	321	139	71	78	43	42	19
11	68	201	120	75	120	1,440	123	66	67	38	35	16
12	106	170	681	70	109	772	126	61	81	33	151	14
13	110	544	2,190	72	104	374	119	58	101	29	238	13
14	89	1,870	597	74	99	1,030	109	57	64	26	230	164
15	73	707	350	78	106	994	104	55	57	25	222	172
16	60	414	231	80	91	443	127	54	61	23	126	64
17	58	298	170	82	85	1,400	323	54	823	20	71	36
18	52	234	180	92	92	878	228	53	306	19	49	26
19	45	215	183	230	81	780	223	52	254	17	38	22
20	40	306	414	182	82	494	603	51	166	22	33	20
21	38	318	302	138	79	338	367	49	111	774	28	18
22	48	258	272	411	74	258	988	48	86	231	25	17
23	96	207	206	408	77	211	875	50	72	111	23	33
24	102	176	188	231	72	180	423	49	62	776	22	23
25	85	167	215	171	69	607	277	49	57	337	22	48
26	71	176	200	159	70	1,590	204	48	170	237	20	63
27	65	176	168	168	69	821	164	51	840	229	18	33
28	64	188	158	199	67	419	138	83	335	136	17	24
29	63	174	181	254	-----	303	118	88	174	85	16	22
30	58	163	843	189	-----	248	108	67	120	67	41	20
31	57	-----	1,880	157	-----	230	-----	57	-----	58	59	-----
TOTAL	3,316	14,852	11,844	6,687	4,996	15,384	7,463	2,059	5,553	4,409	2,017	1,020
MEAN	107	495	382	216	178	496	249	66.4	185	142	65.1	34.0
MAX	464	3,220	2,190	719	1,030	1,590	988	103	840	776	238	172
MIN	38	163	120	70	67	67	104	48	48	17	16	13
CFSM	.81	3.75	2.89	1.64	1.35	3.76	1.89	.50	1.40	1.08	.49	.26
IN.	.93	4.19	3.34	1.88	1.41	4.34	2.10	.58	1.56	1.24	.57	.29

CAL YR 1972 TOTAL 66,047 MEAN 180 MAX 3,220 MIN 12 CFSM 1.36 IN 18.61
WTR YR 1973 TOTAL 79,600 MEAN 218 MAX 3,220 MIN 13 CFSM 1.65 IN 22.43

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	2100	12.29	4,550	12-31	0700	9.54	2,450
11-14	0800	9.17	2,260	03-11	1600	8.77	2,060
12-13	0900	10.73	3,070	03-14	2100	8.58	1,970

03340800 Big Raccoon Creek near Fincastle, Ind.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10.0	---	---	---	---	---	14.0	17.0	---	---	---
2	17.0	11.0	5.0	---	3.0	---	14.0	---	---	---	21.0	---
3	14.0	11.0	---	3.0	3.0	10.0	8.0	---	17.0	23.0	23.0	---
4	17.0	---	4.0	3.0	2.0	---	---	17.0	16.0	22.0	---	---
5	16.0	---	---	2.0	---	10.0	13.0	---	17.0	---	---	---
6	17.0	---	3.0	---	---	---	---	---	17.0	21.0	23.0	---
7	---	9.0	3.0	---	---	11.0	---	14.0	17.0	---	---	20.0
8	---	---	---	1.0	1.0	---	14.0	---	---	---	---	---
9	---	---	3.0	1.0	1.0	12.0	---	17.0	18.0	---	23.0	---
10	17.0	---	---	---	---	---	9.0	---	---	---	---	---
11	---	---	---	---	---	13.0	---	17.0	20.0	---	---	---
12	---	---	1.0	2.0	2.0	13.0	8.0	---	19.0	21.0	---	---
13	---	10.0	0.5	---	---	---	---	17.0	---	---	22.0	---
14	14.0	8.0	---	2.0	2.0	13.0	---	---	21.0	21.0	22.0	---
15	---	9.0	---	3.0	3.0	13.0	12.0	17.0	---	22.0	---	---
16	16.0	---	1.0	---	---	12.0	---	---	---	---	---	---
17	---	7.0	---	---	6.0	8.0	10.0	17.0	20.0	---	---	---
18	---	---	---	1.0	---	8.0	11.0	---	20.0	22.0	23.0	---
19	14.0	---	2.0	2.0	7.0	8.0	---	18.0	21.0	---	---	---
20	7.0	---	---	3.0	---	---	---	---	---	22.0	---	---
21	12.0	5.0	---	3.0	---	5.0	---	19.0	21.0	22.0	---	---
22	---	---	---	4.0	8.0	---	16.0	---	21.0	21.0	24.0	---
23	12.0	5.0	---	4.0	---	6.0	16.0	---	---	---	---	---
24	---	---	---	---	9.0	---	---	---	---	---	---	---
25	---	5.0	---	4.0	---	7.0	---	19.0	21.0	23.0	---	---
26	---	---	1.0	3.5	---	10.0	14.0	---	---	22.0	24.0	---
27	11.0	5.0	---	2.0	9.0	10.0	---	---	19.0	---	---	---
28	---	---	---	---	4.0	---	15.0	16.0	---	23.0	26.0	---
29	---	5.0	---	2.0	---	10.0	---	---	20.0	---	---	---
30	---	---	3.0	---	---	---	---	17.0	---	---	24.0	---
31	9.0	---	3.0	1.0	---	10.0	---	---	---	22.0	23.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDIMENT (T/DAY)	SUS- PENDE SEDIMENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV.								
02...	1510	14.5	3700	595	5940		48	57
13...	1700	10.0	552	8210	12200		19	25
JAN.								
23...	0700	4.0	474	763	976		63	73
MAR.								
17...	0730	7.0	1260	6370	21700		30	41
JUNE								
05...	1800	17.0	375	1150	1160		88	95
DATE		SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.								
02...		66	74	82	86	92	96	100
13...		33	58	84	99	100	--	--
JAN.								
23...		82	90	96	98	99	100	--
MAR.								
17...		52	69	92	98	100	--	--
JUNE								
05...		97	98	99	99	99	100	--

WABASH RIVER BASIN

03340870 Mansfield Lake at Ferndale, Ind.

LOCATION.--Lat 39°43'02", long 87°04'20", in SE 1/4 NE 1/4 sec.28, T.15 N., R.6 W., Parke County, in discharge tower of reservoir on Big Raccoon Creek at Ferndale, 4.4 miles (7.1 km) upstream from Rocky Fork Creek, and 6.1 miles (9.8 km) northeast of Mansfield.

DRAINAGE AREA.--208 sq mi (538 sq km).

PERIOD OF RECORD.--December 1960 to current year. Prior to September 1970, published as Mansfield "Reservoir".

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 67,680 acre-ft (83.4 cu hm) May 3, elevation, 669.13 ft (203.951 m); minimum, 16,220 acre-ft (20.0 cu hm) Feb. 17, elevation, 640.03 ft (195.081 m).

Period of record: Maximum contents, 87,510 acre-ft (107 cu hm) May 4, 1964, elevation, 676.52 ft (206.203 m); minimum, 16,080 acre-ft (19.8 cu hm) many times, elevation, 639.9 ft (195.04 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4 ft (1.22 m) wide and 8 ft (2.44 m) high, in semi-elliptical concrete conduit through dam. Minimum design capacity is 16,180 acre-ft (19.9 cu hm), elevation, 640 ft (195.1 m). Seasonal pool capacity is 49,300 acre-ft (60.8 cu hm), elevation, 661 ft (201.5 m). Capacity at uncontrolled spillway elevation, 690 ft (210.3 m) is 133,000 acre-ft (164 cu hm). Reservoir is used for flood control and recreation. Reservoir put in operation on Dec. 6, 1960.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	656.76	40,940	-
Oct. 31.....	648.59	27,310	-13,630
Nov. 30.....	656.00	39,560	+12,250
Dec. 31.....	650.28	29,880	-9,680
Calendar year 1972.....	-	-	+12,750
Jan. 31.....	640.07	16,260	-13,620
Feb. 28.....	640.09	16,280	+20
Mar. 31.....	666.05	60,300	+44,020
Apr. 30.....	668.94	67,210	+6,910
May 31.....	666.16	49,580	-17,630
June 30.....	662.19	51,750	+2,170
July 31.....	661.26	49,800	-1,950
Aug. 31.....	661.16	49,580	-220
Sept. 30.....	660.15	47,530	-2,050
Water year 1973.....	-	-	+6,590

03340900 Big Raccoon Creek at Ferndale, Ind.

LOCATION.—Lat 39°41'44", long 87°05'01", in SE 1/4 SW 1/4 sec.33, T.15 N., R.6 W., Parke County, on right bank 1.1 miles (1.8 km) southwest of Ferndale, 1.8 miles (2.9 km) northeast of Mansfield, 2.0 miles (3.2 km) upstream from Rocky Fork Creek, and 2.1 miles (3.4 km) downstream from Mansfield Lake.

DRAINAGE AREA.—215 sq mi (557 sq km).

PERIOD OF RECORD.—October 1956 to current year. Prior to October 1963, published as Raccoon Creek at Ferndale.

GAGE.—Water-stage recorder. Datum of gage is 582.36 ft (177.503 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.—17 years, 214 cfs (6.060 cu m/s), 13.52 in/yr (343 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,200 cfs (62.3 cu m/s) Jan. 12, gage height, 8.03 ft (2.448 m); minimum daily, 23 cfs (0.65 cu m/s) Mar. 2-4.

Period of record: Maximum discharge, 40,500 cfs (1,150 cu m/s) June 28, 1957, gage height, 19.87 ft (6.056 m), from rating curve extended above 5,000 cfs (142 cu m/s) on basis of records for station at Mansfield; minimum daily, 2.7 cfs (0.076 cu m/s) Oct. 11, 1956.

REMARKS.—Records good. Flow regulated since October 1960, by Mansfield Lake (See sta 03340870).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	395	759	117	276	91	284	115	128	430	213	77
2	150	233	406	112	258	23	413	117	128	428	220	58
3	149	115	402	126	115	23	410	405	128	435	86	41
4	461	109	401	125	109	23	410	681	134	450	58	29
5	736	106	401	113	106	27	408	747	123	443	49	28
6	730	300	416	110	342	24	408	747	106	440	43	28
7	726	523	405	109	936	26	408	747	104	215	31	28
8	720	517	405	109	1,310	24	410	632	103	103	30	29
9	715	684	403	300	1,220	32	410	751	103	83	31	29
10	709	824	401	712	602	34	410	744	103	83	61	28
11	492	817	400	1,190	224	113	408	737	262	82	79	28
12	307	886	430	1,880	208	39	410	737	423	66	89	28
13	269	552	120	2,040	181	34	408	733	536	43	326	28
14	307	134	96	1,780	181	58	408	726	584	31	306	28
15	325	112	92	1,700	181	41	405	723	405	30	334	69
16	288	107	223	1,400	179	40	344	719	169	30	438	112
17	268	105	483	637	120	117	181	584	172	30	385	113
18	268	103	553	231	100	107	304	206	403	29	210	113
19	246	109	555	298	145	103	418	97	266	29	67	106
20	233	109	745	316	158	103	191	95	101	85	66	112
21	233	448	965	290	157	100	189	94	256	152	64	112
22	235	873	1,140	352	131	97	233	95	413	106	40	112
23	293	868	1,350	560	126	95	157	95	410	314	26	112
24	326	864	1,580	551	144	95	120	95	410	450	30	112
25	286	861	1,740	348	136	153	117	97	306	560	30	114
26	266	853	1,700	286	118	145	115	97	172	620	29	112
27	266	917	1,730	286	118	113	113	98	184	620	29	112
28	266	974	1,760	318	118	109	112	97	198	617	29	113
29	283	1,030	1,610	332	-----	115	112	121	324	614	29	113
30	290	1,100	573	312	-----	115	112	131	430	518	34	113
31	292	-----	133	264	-----	118	-----	129	-----	177	61	-----
TOTAL	11,286	15,632	22,337	17,304	7,999	2,337	8,828	12,192	7,584	8,313	3,523	2,237
MEAN	364	521	721	558	286	75.4	294	393	253	268	114	74.6
MAX	736	1,100	1,760	2,040	1,310	153	418	751	584	620	438	114
MIN	149	103	92	109	100	23	112	94	101	29	26	28

CAL YR 1972 TOTAL 91,070 MEAN 249 MAX 1,760 MIN 17
WTR YR 1973 TOTAL 119,572 MEAN 328 MAX 2,040 MIN 23

03341300 Big Raccoon Creek at Coxville, Ind.

LOCATION.--Lat 39°39'09", long 87°17'37", in SW 1/4 SW 1/4 sec.15, T.14 N., R.8 W., Parke County, on right bank at downstream side of covered bridge on county road at Coxville, 0.8 mile (1.3 km) upstream from Rock Run, 1.5 miles (2.4 km) downstream from Little Raccoon Creek, and 2.1 miles (3.4 km) northwest of Rosedale.

DRAINAGE AREA.--440 sq mi (1,140 sq km).

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1963, published as Raccoon Creek at Coxville.

GAGE.--Water-stage recorder. Datum of gage is 494.00 ft (150.571 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

AVERAGE DISCHARGE.--17 years, 459 cfs (13.00 cu m/s), 14.16 in/yr (360 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,140 cfs (231 cu m/s) Nov. 2, gage height, 13.54 ft (4.127 m); minimum daily, 84 cfs (2.38 cu m/s) Sept. 7, 8, 10.

Period of record: Maximum discharge, 108,000 cfs (3,060 cu m/s) June 28, 1957, gage height, 21.23 ft (6.471 m), from rating curve extended above 35,000 cfs (991 cu m/s) on basis of an estimate made by slope-area study; minimum daily, 6.5 cfs (0.18 cu m/s) Oct. 10, 1956.

REMARKS.--Records fair. Flow regulated by Mansfield Lake (See sta 03340870).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	478	889	1,340	1,240	679	275	970	445	223	796	697	157
2	388	6,130	835	931	1,350	239	1,190	445	217	757	562	151
3	340	1,720	784	871	1,060	219	1,050	520	233	736	343	118
4	490	1,120	769	1,430	802	207	1,010	925	1,060	1,270	255	101
5	1,080	865	757	889	658	255	955	1,010	3,900	1,240	211	92
6	1,020	718	1,290	685	577	320	919	1,030	1,590	1,020	189	88
7	967	1,020	1,050	592	1,170	310	892	1,040	1,070	826	166	84
8	931	1,160	931	535	1,560	325	880	1,100	757	460	147	84
9	907	1,050	874	520	1,710	305	874	1,090	571	355	156	89
10	889	1,210	820	901	1,300	1,350	895	1,060	466	315	166	84
11	814	1,190	757	1,210	646	2,720	856	1,040	415	280	173	86
12	577	1,180	1,370	1,690	571	1,610	850	1,020	742	247	197	92
13	457	1,820	3,600	2,210	526	985	835	1,010	877	211	424	90
14	451	2,760	1,360	2,050	478	1,730	805	997	904	219	835	100
15	487	1,210	958	1,980	490	1,760	790	985	901	189	694	97
16	469	892	751	1,900	445	1,160	814	976	559	152	742	151
17	409	715	889	1,320	390	2,520	985	940	1,080	140	688	173
18	400	607	955	700	332	1,630	745	580	928	130	511	178
19	385	586	991	847	355	1,240	1,280	325	1,530	124	275	175
20	345	730	1,260	775	390	1,000	1,600	278	721	328	213	174
21	340	673	1,460	730	378	904	970	251	532	2,040	187	174
22	373	1,210	1,480	865	365	760	1,240	239	778	973	182	175
23	448	1,220	1,700	1,050	350	670	1,630	235	751	619	142	182
24	499	1,200	1,750	1,080	338	613	1,140	227	724	982	129	196
25	466	1,200	2,020	847	330	1,380	853	223	697	913	123	214
26	403	1,230	2,000	730	320	2,350	715	213	445	1,000	116	200
27	395	1,260	1,960	652	302	1,510	610	211	1,140	949	110	188
28	398	1,330	2,020	742	292	1,040	550	211	1,260	904	105	182
29	400	1,320	2,070	790	-----	883	505	215	811	874	101	185
30	415	1,400	2,400	757	-----	817	460	247	862	865	117	181
31	418	-----	2,450	649	-----	760	-----	235	-----	592	120	-----
TOTAL	16,839	39,615	43,651	32,168	18,164	31,847	27,868	19,323	26,744	20,506	9,076	4,241
MEAN	543	1,321	1,408	1,038	649	1,027	929	623	891	661	293	141
MAX	1,080	6,130	3,600	2,210	1,710	2,720	1,630	1,100	3,900	2,040	835	214
MIN	340	586	751	520	292	207	460	211	217	124	101	84
CFSM	1.21	2.95	3.14	2.32	1.45	2.29	2.07	1.39	1.99	1.48	.65	.31
IN.	1.40	3.29	3.62	2.67	1.51	2.64	2.31	1.60	2.22	1.70	.75	.35

CAL YR 1972 TOTAL 202,347 MEAN 553 MAX 6,130 MIN 74 CFSM 1.23 IN 16.80
WTR YR 1973 TOTAL 290,042 MEAN 795 MAX 6,130 MIN 84 CFSM 1.77 IN 24.08

03341500 Wabash River at Terre Haute, Ind.

LOCATION.—Lat 39°28'00", long 87°25'08", in NE 1/4 SW 1/4 sec.21, T.12 N., R.9 W., Vigo County, on left bank at upstream side of Wabash Avenue bridge at Terre Haute, 2.2 miles (3.5 km) upstream from Sugar Creek, 4 miles (6 km) downstream from Lost Creek, and at mile 214.4 (345.0 km).

DRAINAGE AREA.—12,265 sq mi (31,766 sq km) (revised).

PERIOD OF RECORD.—August 1902 to December 1903 (gage height only), February 1905 to July 1906, October 1927 to current year. Gage-height records collected at site 3,300 ft (1,010 m) upstream June 1891 to June 1897 and since December 1904 are contained in reports of U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 442.90 ft (134.996 m) above mean sea level. See WSP 1725 for history of changes prior to Oct. 27, 1928.

AVERAGE DISCHARGE.—46 years, 10,430 cfs (295.4 cu m/s), 11.55 in/yr (293 mm/yr).

EXTREMES.—Current year: Maximum discharge, 57,100 cfs (1,620 cu m/s) Jan. 4, gage height, 22.34 ft (6.809 m); minimum daily, 3,400 cfs (96.3 cu m/s) Sept. 13.

Period of record: Maximum discharge, 109,000 cfs (5,350 cu m/s) May 20, 1943, gage height, 30.50 ft (9.296 m); minimum daily, 701 cfs (19.9 cu m/s) Aug. 3, 1934.

Flood of Mar. 27, 1913, reached a stage of 31.1 ft (9.48 m), present site and datum, discharge, 245,000 cfs (6,940 cu m/s).

REMARKS.—Records good. Natural flow affected by upstream reservoirs.

REVISIONS (WATER YEARS).—WSP 205: 1905. WSP 1335: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29,300	10,700	25,600	42,900	19,800	8,610	34,000	26,400	12,500	12,500	9,920	5,000
2	29,900	20,000	24,200	50,800	21,000	8,460	34,100	25,500	12,800	12,000	13,100	4,640
3	29,400	30,000	22,800	55,400	23,900	8,340	34,300	23,900	11,700	11,600	13,500	4,380
4	25,900	32,200	20,600	56,700	26,600	8,460	34,200	21,300	10,900	11,700	11,600	4,240
5	21,700	32,300	18,800	54,000	28,300	9,500	33,400	19,700	24,400	11,600	9,440	4,050
6	21,300	31,200	19,200	47,200	28,000	13,900	31,500	19,000	30,200	10,100	7,880	3,870
7	20,800	28,400	22,800	40,600	25,800	17,300	29,600	17,500	31,600	9,020	6,930	3,840
8	19,400	26,400	24,800	35,600	24,200	19,100	27,500	16,700	32,400	8,460	6,090	3,780
9	17,700	26,100	25,300	30,600	23,400	18,400	25,800	15,500	32,300	7,560	5,580	3,770
10	16,500	26,500	23,900	24,000	22,100	19,200	24,600	13,700	31,000	7,110	5,320	3,740
11	14,800	26,100	20,900	19,400	19,300	28,000	23,600	12,600	27,100	6,770	4,960	3,600
12	13,000	24,000	19,300	16,800	16,400	34,100	22,800	12,400	23,000	6,190	4,720	3,500
13	13,600	23,300	28,900	15,500	13,900	35,000	22,400	11,700	21,400	5,740	5,670	3,400
14	15,300	30,900	33,300	15,900	12,600	35,200	22,600	11,100	20,800	5,310	6,920	3,700
15	15,500	34,500	34,200	16,900	12,200	37,300	23,500	10,700	20,600	5,430	12,800	5,400
16	14,900	36,900	33,800	17,600	11,800	38,900	23,900	10,400	19,800	4,960	15,300	5,040
17	13,600	38,200	30,300	18,800	11,300	39,700	24,300	9,920	18,800	4,700	17,800	4,390
18	12,600	38,800	23,600	19,600	10,900	41,200	25,300	9,420	21,300	4,510	17,500	3,960
19	11,900	39,000	19,600	20,000	10,500	40,900	25,800	8,700	27,200	4,230	17,200	3,780
20	11,300	37,800	22,200	20,500	10,500	40,100	26,400	8,190	28,900	4,980	16,700	3,880
21	10,500	36,100	26,300	19,400	10,200	39,300	27,800	8,170	25,000	14,200	13,900	3,740
22	9,310	34,600	27,700	18,200	10,100	37,800	31,400	8,250	21,200	17,800	11,900	3,700
23	9,120	33,200	27,500	18,800	10,200	35,800	36,600	8,150	17,200	11,800	10,900	3,710
24	10,900	31,800	26,600	21,400	10,200	33,900	42,300	8,130	13,700	12,400	10,800	3,810
25	14,600	30,100	25,400	22,800	9,840	32,500	47,000	8,190	11,600	16,700	10,100	3,850
26	15,500	28,600	25,100	21,800	9,520	34,200	47,600	8,000	10,400	17,400	8,700	3,890
27	14,500	27,800	25,000	19,700	9,160	36,200	42,900	7,550	12,900	21,500	7,370	3,870
28	13,200	27,400	24,700	18,800	8,800	37,400	36,300	7,400	15,500	20,500	6,560	3,850
29	11,800	27,000	23,900	20,100	-----	37,300	31,800	8,090	13,500	15,200	6,050	3,810
30	10,900	26,400	28,400	21,100	-----	36,200	28,200	10,100	12,700	11,500	5,670	3,770
31	10,500	-----	35,200	21,000	-----	34,600	-----	12,200	-----	9,780	5,400	-----
TOTAL	499,230	896,300	789,900	841,900	450,520	896,870	921,500	398,560	612,400	323,250	306,280	119,960
MFAN	16,100	29,880	25,480	27,160	16,090	28,930	30,720	12,860	20,410	10,430	9,880	3,999
MAX	29,900	39,000	35,200	56,700	28,300	41,200	47,600	26,400	32,400	21,500	17,800	5,400
MIN	9,120	10,700	18,800	15,500	8,800	8,340	22,400	7,400	10,400	4,230	4,720	3,400
CFSM	1.31	2.44	2.08	2.21	1.31	2.36	2.50	1.05	1.66	.85	.81	.33
IN.	1.51	2.72	2.40	2.55	1.37	2.72	2.79	1.21	1.86	.98	.93	.36

CAL YR 1972 TOTAL 5,288,580 MEAN 14,450 MAX 58,500 MIN 2,640 CFSM 1.18 IN 16.04
WTR YR 1973 TOTAL 7,056,670 MEAN 19,330 MAX 56,700 MIN 3,400 CFSM 1.58 IN 21.40

WABASH RIVER BASIN

03341920 Wabash River at Hutsonville, Ill.

LOCATION.--Lat 39°06'37", long 87°39'18", Crawford County, Illinois, Sullivan County, Indiana, at center of bridge (state line) on Indiana State Highway 154, 0.2 mile (0.3 km) northeast of Hutsonville, 0.3 mile (0.5 km) downstream from Sewage Disposal Plant, and 0.5 mile (0.8 km) upstream from Huston Creek.

DRAINAGE AREA.--12,700 sq mi (32,890 sq km), approximately.

PERIOD OF RECORD.--CHEMICAL ANALYSES: July 1969 to June 1973 (discontinued).

REMARKS.--Records of discharge are available for Wabash River at Riverton, Ind. (See sta 03342000), drainage area, 13,100 sq mi (33,930 sq km), approximately.

WATER QUALITY DATA. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	SDF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	INO- CHEM- ICAL OXYGEN DEMAND (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
OCT. 11...	1100	18.0	17.0	440	7.4	--	--	3.8	2500	27000	.05	.02
NOV. 16...	0800	6.0	-0.5	380	7.2	10.0	80	6.8	3000	21200	.10	.20
DEC. 13...	0830	4.0	-2.5	525	7.4	10.4	79	7.0	5000	148000	.03	.05
JAN. 17...	1330	3.0	16.5	595	7.3	12.6	93	1.8	1060	3600	.05	.02
FEB. 21...	1330	5.5	--	470	--	12.2	97	4.0	920	22000	.04	.02
MAR. 21...	1100	7.5	4.5	475	6.8	10.8	90	4.7	700	15300	.04	.04
APR. 16...	1115	11.5	--	500	7.9	--	--	3.0	460	14000	.01	.03
MAY 24...	1300	20.0	24.0	590	8.1	9.2	80	1.0	420	14500	.29	.02
JUNE 20...	0715	23.5	25.0	425	7.5	5.6	65	2.6	4714	27600	.12	.27

DATE	DIS- SOLVED NITRATE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOL- VED PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED AMMONIA (NH4) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)
OCT. 11...	3.3	.54	.14	.30	464	128	336	--	.46	--	--	--
NOV. 16...	2.4	2.1	.45	.57	410	130	280	--	.38	.13	11	.6
DEC. 13...	3.7	1.1	.09	.29	474	140	334	--	.45	.04	16	.1
JAN. 17...	3.4	.78	.07	.01	426	60	366	--	.50	.06	15	.0
FEB. 21...	3.8	.30	.06	.16	446	38	408	--	.55	.05	17	.0
MAR. 21...	4.3	.65	.09	.02	406	136	270	--	.37	.05	19	.1
APR. 16...	4.1	.43	.07	.14	424	102	322	19100	.44	.01	18	.1
MAY 24...	2.3	1.3	.03	.16	530	126	404	--	.55	.37	10	.0
JUNE 20...	4.9	3.2	.06	.74	1790	1540	246	--	.33	.15	22	.8

03342000 Wabash River at Riverton, Ind.

LOCATION.--Lat 39°01'13", long 87°34'07", in NE 1/4 SW 1/4 sec.30, T.7 N., R.10 W., Sullivan County, on left bank at downstream side of Illinois Central Railroad bridge at Riverton, 0.6 mile (1.0 km) downstream from Turtle Creek, and at mile 162.0 (260.7 km).

DRAINAGE AREA.--13,161 sq mi (34,087 sq km) (revised).

PERIOD OF RECORD.--WATER DISCHARGE: October 1938 to current year. Prior to April 1939 monthly discharge only, published in WSP 1305. June 1911 to December 1914 (stage heights only) available in the Corps of Engineers office, Louisville, Ky.

WATER TEMPERATURE: July 1954 to September 1961, October 1962 to September 1965, October 1967 to current year.

GAGE.--Water-stage recorder and temperature recorder. Datum of gage is 414.65 ft (126.385 m) above mean sea level. Prior to July 17, 1951, nonrecording gage at same site and datum, read twice daily.

AVERAGE DISCHARGE.--35 years, 11,290 cfs (319.7 cu m/s), 11.65 in/yr (296 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23,700	10,500	26,600	33,400	20,500	8,860	44,200	37,100	12,000	13,300	10,200	5,920
2	24,900	18,300	25,400	36,500	21,900	8,780	43,000	32,000	12,700	12,100	10,500	5,560
3	25,700	25,100	24,000	42,300	23,500	8,730	40,800	28,800	13,300	12,100	12,200	5,220
4	25,800	27,500	22,400	51,800	24,200	8,710	39,300	25,500	12,300	11,600	12,600	4,980
5	24,100	28,900	20,200	59,900	25,000	9,850	38,200	22,600	17,200	11,900	11,300	4,840
6	21,300	29,800	19,300	62,500	26,200	11,400	37,200	20,400	25,400	11,300	9,720	4,640
7	19,800	30,400	20,200	61,700	26,000	14,600	35,600	19,100	27,000	10,200	8,380	4,470
8	18,900	30,100	22,300	58,100	25,300	17,500	33,500	18,100	28,400	8,950	7,530	4,430
9	17,600	28,100	24,100	53,600	24,200	18,700	31,100	17,000	28,000	8,300	6,840	4,390
10	16,200	26,400	24,300	48,000	23,000	20,700	28,800	15,400	30,400	8,220	6,480	4,380
11	15,100	25,800	22,900	37,300	21,000	28,000	26,400	13,800	30,500	7,930	6,150	4,290
12	13,600	25,000	20,500	25,600	18,800	32,600	24,700	12,900	28,600	7,280	5,780	4,150
13	12,200	24,600	23,800	20,100	16,100	33,800	23,300	12,500	24,600	6,740	5,680	4,000
14	13,000	29,000	27,800	17,900	13,700	35,100	22,400	11,800	22,100	6,480	6,330	3,910
15	14,000	30,800	29,800	16,600	12,900	37,900	22,300	11,200	20,800	6,190	7,960	4,370
16	14,200	31,800	31,300	17,200	12,300	40,200	22,900	10,800	20,700	6,130	12,100	5,560
17	13,500	33,600	32,800	17,800	11,600	43,900	23,900	10,500	19,500	5,770	14,200	5,320
18	12,400	35,600	32,400	19,200	11,100	47,000	24,200	10,100	19,100	5,520	15,600	4,760
19	11,600	38,200	27,700	20,800	10,700	47,800	25,400	9,690	23,300	5,320	15,500	4,390
20	11,000	41,100	23,500	20,800	10,500	48,700	27,900	9,110	27,100	5,250	15,300	4,240
21	10,500	42,800	24,100	20,500	10,400	50,300	27,900	8,730	27,200	11,100	14,500	4,300
22	9,740	43,300	25,900	21,000	10,200	49,600	29,400	8,700	25,100	23,000	13,400	4,170
23	8,890	42,400	26,700	20,800	10,000	47,800	33,700	8,730	21,800	19,700	11,500	4,090
24	8,890	40,500	26,900	19,600	10,100	45,600	36,000	8,630	17,300	13,700	10,500	4,130
25	10,600	38,000	26,600	21,200	10,100	44,400	39,000	8,620	14,000	14,900	10,300	4,210
26	13,300	35,500	25,800	21,600	9,700	45,800	43,700	8,600	11,700	16,700	9,620	4,240
27	13,900	33,100	25,000	20,900	9,460	44,800	48,000	8,520	13,800	18,200	8,520	4,250
28	13,100	31,000	24,600	19,700	9,130	42,600	49,600	8,330	18,900	20,000	7,550	4,240
29	12,000	29,300	24,300	19,600	-----	42,200	48,200	8,250	17,900	18,600	6,930	4,220
30	10,800	27,900	25,600	20,100	-----	43,000	43,700	9,030	14,400	14,800	6,530	4,150
31	10,200	-----	30,800	20,400	-----	43,800	-----	10,600	-----	11,900	6,190	-----
TOTAL	470,520	934,400	787,600	946,500	457,590	1,022,770	1,014,370	445,140	625,100	353,180	305,890	135,820
MEAN	15,180	31,150	25,410	30,530	16,340	32,990	33,810	14,360	20,840	11,390	9,867	4,527
MAX	25,800	43,300	32,800	62,500	26,200	50,300	49,600	37,100	30,500	23,000	15,600	5,920
MIN	8,890	10,500	19,300	16,600	9,130	8,710	22,300	8,250	11,700	5,250	5,680	3,910
CFSM	1.15	2.37	1.93	2.32	1.24	2.51	2.57	1.09	1.58	.87	.75	.34
IN.	1.33	2.64	2.23	2.68	1.29	2.89	2.87	1.26	1.77	1.00	.86	.38
CAL YR 1972	TOTAL 5,512,370		MEAN 15,060		MAX 61,400		MIN 2,400		CFSM 1.14		IN 15.58	
WTR YR 1973	TOTAL 7,498,770		MEAN 20,540		MAX 62,500		MIN 3,910		CFSM 1.56		IN 21.20	

03342000 Wabash River at Riverton, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 62,600 cfs (1,770 cu m/s) Jan. 6, gage height, 20.39 ft (6.215 m); minimum daily, 3,910 cfs (111 cu m/s) Sept. 14.
 Period of record: Maximum discharge, 201,000 cfs (5,690 cu m/s) May 21, 1943, gage height, 29.36 ft (8.949 m); minimum daily, 858 cfs (24.3 cu m/s) Sept. 27-30, 1941.
 Flood of Mar. 28, 1913, reached a stage of 26.4 ft (8.05 m), from graph based on once-daily readings by Illinois Central Railroad Co., discharge, 250,000 cfs (7,080 cu m/s).

WATER TEMPERATURE, Current year: Maximum temperature, 29.0°C July 10, 11, Aug. 30, 31, Sept. 1, 2, 4, 5; minimum, freezing point on several days during December and January.

Period of record: Maximum temperature, 33.0°C July 20, Aug. 29, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs and power development.

REVISIONS (WATER YEARS).--WSP 1335: 1939, 1950.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.0	12.5	12.0	4.0	4.0	4.0	3.0	3.5	2.5	7.0	6.0
2	17.0	15.5	13.0	12.5	4.5	4.0	3.5	2.5	4.5	3.5	7.5	7.0
3	16.0	15.5	13.0	12.5	5.0	4.5	2.5	2.0	4.5	4.0	8.5	7.5
4	16.5	16.0	12.5	12.0	5.0	5.0	2.5	2.0	5.0	4.0	9.5	8.5
5	17.0	16.5	12.0	10.5	5.5	5.0	2.0	1.5	5.0	4.0	10.5	9.5
6	17.5	17.0	11.0	10.5	5.5	5.0	1.5	0.5	5.5	5.0	11.5	10.5
7	17.5	16.5	11.0	11.0	5.0	3.5	0.5	0.0	5.5	5.0	12.0	11.5
8	17.5	16.5	11.0	10.5	3.5	3.0	0.0	0.0	5.5	4.5	12.0	11.0
9	17.0	16.0	10.5	10.5	3.0	2.5	0.0	0.0	4.5	3.5	12.0	11.5
10	16.5	15.5	10.5	10.0	2.5	2.0	0.0	0.0	3.5	2.5	12.0	11.5
11	16.0	15.5	10.0	9.5	2.0	1.5	0.0	0.0	2.5	1.5	13.0	12.0
12	16.0	15.5	9.5	9.0	2.0	1.5	0.0	0.0	2.0	1.5	13.0	11.5
13	16.0	15.0	9.0	8.5	1.5	0.5	0.0	0.0	2.0	2.0	12.0	11.0
14	16.0	16.0	8.5	8.0	0.5	0.0	0.0	0.0	3.0	2.0	12.5	11.5
15	16.0	15.0	8.0	7.0	0.0	0.0	1.5	0.0	4.0	3.0	13.0	12.0
16	15.5	15.0	7.5	6.5	0.0	0.0	2.0	1.5	3.5	3.0	13.0	12.0
17	15.0	14.5	6.5	6.0	0.0	0.0	2.5	1.5	4.0	3.0	12.5	9.5
18	14.5	14.0	6.0	6.0	0.0	0.0	3.5	2.5	4.0	3.5	9.5	8.0
19	14.0	13.0	6.0	6.0	0.5	0.0	4.0	3.5	4.0	3.5	9.0	8.0
20	13.5	12.0	6.0	5.5	2.0	0.5	5.0	4.0	5.0	4.0	9.0	7.5
21	12.5	12.0	6.0	5.5	2.0	2.0	5.0	5.0	5.0	5.0	8.5	7.0
22	12.5	12.0	6.0	6.0	2.0	1.5	5.0	4.5	5.5	5.0	8.5	7.0
23	13.0	12.5	6.0	5.5	3.0	2.0	4.5	4.0	6.0	5.0	8.5	7.5
24	13.0	13.0	5.5	5.0	3.5	3.0	4.5	3.5	6.5	5.5	9.0	7.5
25	13.0	12.5	5.5	5.0	3.5	3.0	4.0	3.0	6.0	5.5	9.5	9.0
26	13.0	12.0	5.0	4.5	3.0	2.5	3.5	3.0	6.0	6.0	9.5	9.5
27	12.0	12.0	4.5	4.0	2.5	2.0	3.5	3.0	6.0	6.0	10.0	9.0
28	12.0	11.5	4.5	4.0	2.0	1.5	4.0	3.5	6.5	6.0	10.0	10.0
29	11.5	11.5	4.5	4.0	2.0	2.0	3.5	3.0	---	---	10.5	10.0
30	11.5	11.0	4.0	4.0	3.5	2.0	3.5	3.0	---	---	11.5	10.0
31	12.0	11.5	---	---	4.0	3.5	3.0	3.0	---	---	12.0	10.5
MONTH	19.5	11.0	13.0	4.0	5.5	0.0	5.0	0.0	6.5	1.5	13.0	6.0

03342000 Wabash River at Riverton, Ind.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	12.0	15.5	15.0	19.0	18.0	24.5	23.0	26.0	26.0	29.0	28.5
2	12.0	11.0	16.0	15.0	19.5	18.5	25.0	24.0	26.0	25.5	29.0	28.5
3	11.0	10.0	16.0	15.0	21.0	19.5	25.5	24.5	26.0	24.5	28.5	28.0
4	10.0	9.5	15.5	15.0	23.0	21.0	25.0	24.0	25.5	25.0	29.0	28.0
5	9.5	9.0	16.0	15.0	23.0	22.0	25.5	24.5	26.0	25.0	29.0	28.0
6	10.0	8.5	16.0	15.0	22.5	21.0	26.0	25.0	26.5	25.5	28.0	27.5
7	10.0	10.0	15.0	15.0	22.0	21.5	27.5	25.5	26.5	26.0	27.5	26.5
8	11.5	10.0	16.0	15.0	22.0	21.5	27.5	26.5	28.0	26.5	27.0	26.0
9	11.5	11.0	17.0	15.5	23.0	22.0	28.5	27.5	28.0	27.5	26.0	25.0
10	11.0	9.5	18.0	17.0	24.0	23.0	29.0	28.5	28.0	26.5	25.5	25.0
11	9.5	8.5	18.5	17.5	24.5	23.5	29.0	28.0	28.5	28.0	25.0	24.0
12	9.0	8.0	18.5	18.0	25.0	24.0	28.0	27.0	28.5	28.0	24.5	23.5
13	8.0	7.5	18.5	17.5	25.0	24.5	27.5	26.5	28.5	28.0	24.0	23.0
14	9.0	8.0	18.0	16.5	25.0	24.5	27.0	26.5	28.5	27.0	24.0	23.5
15	10.0	9.0	17.0	16.0	25.0	24.5	27.5	26.5	27.0	26.0	24.0	22.5
16	11.5	10.0	16.5	16.0	24.5	24.0	27.5	26.5	26.0	24.0	23.5	23.0
17	12.0	11.0	16.5	15.5	24.5	24.0	27.0	25.5	24.5	24.0	23.5	21.5
18	12.5	12.0	16.0	15.5	24.5	24.0	28.0	26.5	25.0	24.0	21.5	20.5
19	13.5	12.5	17.5	16.0	24.5	23.0	28.0	27.5	25.5	24.0	22.0	21.0
20	14.5	13.5	18.5	17.5	24.0	23.0	29.0	27.5	26.0	25.0	21.5	21.0
21	15.5	14.5	19.5	18.0	24.5	24.0	28.5	24.5	26.0	25.5	22.5	21.5
22	16.5	15.5	20.0	19.0	24.5	24.0	26.0	24.0	26.0	24.0	23.0	22.0
23	17.5	16.0	20.5	20.0	24.5	24.0	26.5	25.0	26.0	25.0	23.5	23.0
24	18.0	17.0	20.5	20.0	25.0	24.0	28.0	26.0	26.0	25.0	24.5	23.0
25	18.0	17.0	21.0	20.0	25.5	24.0	27.5	26.5	25.5	24.5	25.0	24.0
26	17.5	16.0	21.0	20.0	26.0	25.5	27.0	26.0	26.0	25.0	24.5	23.5
27	16.0	14.5	21.0	20.5	25.5	23.0	26.0	25.5	26.0	25.5	24.5	23.5
28	15.0	13.5	21.0	20.0	23.0	22.0	26.0	25.5	27.0	26.0	24.0	23.5
29	15.0	13.5	20.0	19.5	23.0	22.0	26.0	25.0	28.0	27.0	25.5	24.0
30	15.0	14.0	20.0	19.0	23.5	22.0	25.5	25.0	29.0	28.0	25.5	25.0
31	---	---	19.5	18.5	---	---	26.0	25.0	29.0	28.0	---	---
MONTH	18.0	7.5	21.0	15.0	26.0	18.0	29.0	23.0	29.0	24.0	29.0	20.5

03342100 Busseron Creek near Hymera, Ind.

LOCATION.--Lat 39°12'54", long 87°18'41", in NW 1/4 NW 1/4 sec.21, T.9 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on County Road 900 North, 1.9 miles (3.1 km) northwest of Hymera, and 3.9 miles (6.3 km) upstream from West Fork Busseron Creek.

DRAINAGE AREA.--16.7 sq mi (43.3 sq km).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 12, 1969. Datum of gage is 480.00 ft (146.304 m) above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--7 years, 18.7 cfs (0.530 cu m/s), 15.21 in/yr (386 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,690 cfs (47.9 cu m/s) July 26, gage height, 17.98 ft (5.480 m); minimum daily, 0.02 cfs (0.001 cu m/s) Sept. 28-30.

Period of record: Maximum discharge, 1,690 cfs (47.9 cu m/s) July 26, 1973, gage height, 17.98 ft (5.480 m); no flow at times most years.

REMARKS.--Records fair. Flow affected by Soil Conservation Service floodwater-retarding structures.

REVISIONS (WATER YEARS).--WRD Ind. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	198	9.8	58	58	3.6	69	13	3.1	12	30	.26
2	24	650	8.7	45	152	4.5	51	12	5.2	7.2	22	.22
3	14	109	7.4	124	69	12	40	9.0	14	4.1	14	.22
4	49	76	6.9	97	51	23	35	6.9	34	3.1	8.4	.22
5	38	56	6.4	55	39	62	29	5.2	54	2.3	7.4	.22
6	21	45	32	43	29	31	24	4.5	30	1.8	8.7	.22
7	14	77	19	31	22	39	19	5.4	17	1.5	3.9	.19
8	10	56	35	24	19	30	32	18	9.2	1.2	2.1	.22
9	7.4	40	35	20	16	200	25	9.2	5.2	1.2	1.8	.67
10	5.2	32	24	17	12	390	24	6.2	3.1	5.0	1.7	.40
11	3.6	24	22	14	10	196	23	4.8	2.0	7.6	1.3	.30
12	2.7	18	92	12	8.0	130	19	3.6	1.4	4.1	.99	.26
13	2.0	218	106	9.4	6.7	86	15	2.9	1.1	2.6	.99	.22
14	1.5	111	52	7.2	8.4	56	12	2.6	.79	2.0	3.8	.26
15	.92	64	38	5.5	12	170	10	2.1	.73	1.5	2.7	.19
16	.79	48	31	4.6	11	230	29	1.8	1.2	1.2	2.1	.19
17	.73	38	25	6.0	8.8	140	30	1.6	1.2	.99	1.5	.11
18	.50	29	22	17	7.0	86	33	1.4	.92	.86	1.3	.11
19	.40	53	20	30	5.9	190	95	1.3	11	.79	1.1	.07
20	.30	44	39	19	6.2	120	86	1.1	15	.92	.86	.09
21	.30	30	41	35	5.7	78	58	.99	12	633	.61	.07
22	1.4	25	40	62	5.0	60	126	1.1	6.7	256	.45	.07
23	12	19	34	41	4.3	47	158	1.2	3.6	74	.40	.07
24	5.4	15	37	27	3.9	38	74	1.1	2.3	62	.40	.07
25	3.2	13	33	20	3.9	361	56	.99	1.3	142	.40	.07
26	2.3	25	28	19	3.9	304	43	.92	.99	822	.30	.04
27	2.0	21	21	19	3.6	98	34	4.3	183	183	.30	.04
28	2.5	16	18	28	3.6	72	26	3.1	60	76	.26	.02
29	2.0	13	20	26	-----	62	20	3.8	38	60	.26	.02
30	1.6	11	140	19	-----	62	15	5.2	22	49	.45	.02
31	15	-----	98	15	-----	88	-----	4.3	-----	39	.35	-----
TOTAL	282.74	2,174	1,141.2	949.7	584.9	3,463.1	1,310	139.60	540.03	2,457.96	120.82	5.13
MEAN	9.12	72.5	36.8	30.6	20.9	112	43.7	4.50	18.0	79.3	3.90	.17
MAX	49	650	140	124	152	390	158	18	183	822	30	.67
MIN	.30	11	6.4	4.6	3.6	3.6	10	.92	.73	.79	.26	.02
CFSM	.55	4.34	2.20	1.83	1.25	6.71	2.62	.27	1.08	4.75	.23	.01
IN.	.63	4.84	2.54	2.12	1.30	7.71	2.92	.31	1.20	5.48	.27	.01
CAL YR 1972	TOTAL	7,314.49	MEAN	20.0	MAX	650	MIN	.01	CFSM	1.20	IN	16.29
WTR YR 1973	TOTAL	13,169.18	MEAN	36.1	MAX	822	MIN	.02	CFSM	2.16	IN	29.33

03342150 West Fork Busseron Creek near Hymera, Ind.

LOCATION.--Lat 39°11'10", long 87°19'44", in NW 1/4 NW 1/4 sec.32, T.9 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on State Highway 48, 1.4 miles (2.3 km) upstream from mouth, 1.5 miles (2.4 km) west of Hymera, and 3.7 miles (6.0 km) east of U.S. Highway 41.

DRAINAGE AREA.--14.4 sq mi (37.3 sq km).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 476.00 ft (145.085 m) above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--7 years, 12.4 cfs (0.351 cu m/s), 11.69 in/yr (297 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,930 cfs (54.7 cu m/s) July 26, gage height, 13.23 ft (4.033 m); minimum daily, 0.03 cfs (0.001 cu m/s) Sept. 7.

Period of record: Maximum discharge, 1,930 cfs (54.7 cu m/s) July 26, 1973, gage height, 13.23 ft (4.033 m); no flow at times most years.

REMARKS.--Records good.

DISCHARGE* IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	160	6.8	23	55	3.6	55	7.1	2.9	5.0	2.8	.15
2	2.0	459	6.1	13	135	4.2	31	9.4	3.3	4.2	2.1	.10
3	1.2	29	5.9	60	47	9.4	18	6.4	18	3.1	1.6	.10
4	35	12	5.8	61	30	10	20	4.9	37	1.6	1.4	.10
5	17	8.2	5.8	15	109	57	17	4.0	73	2.2	1.3	.10
6	3.1	6.4	35	11	30	16	17	3.7	24	2.4	1.2	.06
7	2.1	68	9.8	7.5	11	22	12	4.1	8.8	2.3	1.0	.03
8	1.4	32	37	5.9	10	17	23	11	5.0	2.8	.92	.10
9	.92	9.4	41	4.6	7.1	14	25	4.9	3.9	1.5	.84	1.5
10	.66	7.3	20	4.0	6.0	11	21	3.6	3.3	5.5	1.1	.70
11	.75	6.2	8.2	3.8	5.6	200	20	3.7	3.2	2.3	.84	.10
12	.74	5.2	25	3.6	5.4	80	15	3.1	2.8	.92	.66	.06
13	.74	211	70	3.5	5.2	40	12	2.8	2.8	.84	.84	.04
14	.74	99	27	3.4	8.2	30	10	2.7	2.5	.66	3.7	.06
15	.84	27	15	3.5	14	15	9.0	2.5	5.0	.66	2.2	.06
16	1.2	15	8.6	3.4	6.6	25	32	2.4	9.0	.66	.92	.05
17	1.3	12	4.0	4.2	5.2	100	31	2.3	3.3	.50	.66	.05
18	1.2	9.6	5.8	15	4.8	40	29	2.2	3.0	.50	.43	.05
19	.57	42	9.8	48	5.4	20	106	2.2	28	.43	.37	.05
20	.15	42	46	15	6.1	48	97	2.0	21	.74	.31	.05
21	.15	15	41	36	5.6	53	27	1.9	4.2	296	.22	.06
22	.74	14	36	73	4.9	32	60	2.0	4.0	48	.18	.08
23	5.2	12	23	27	4.8	36	170	2.1	3.4	21	.18	.12
24	1.5	8.6	30	13	4.0	20	80	2.0	6.6	13	.22	.12
25	.92	9.6	27	10	3.9	264	40	1.9	5.2	59	.37	.18
26	.50	34	19	9.4	4.0	146	25	1.8	3.2	692	.37	.12
27	.37	25	9.6	9.8	3.7	43	11	9.8	233	30	1.0	.12
28	.84	10	8.8	24	3.6	29	7.5	11	29	10	.31	.12
29	.66	7.5	16	21	-----	21	6.6	5.6	10	6.9	.22	.15
30	.43	7.1	139	10	-----	49	5.9	10	6.6	4.5	1.5	.15
31	5.3	-----	105	9.4	-----	68	-----	4.6	-----	3.9	.45	-----
TOTAL	91.52	1,403.1	847.0	551.0	541.1	1,513.2	1,033.0	137.7	565.0	1,223.11	30.21	4.73
MEAN	2.95	46.8	27.3	17.8	19.3	48.8	34.4	4.44	18.8	39.5	.97	.16
MAX	35	459	139	73	135	264	170	11	233	692	3.7	1.5
MIN	.15	5.2	4.0	3.4	3.6	3.6	5.9	1.8	2.5	.43	.18	.03
CFSM	.20	3.25	1.90	1.24	1.34	3.39	2.39	.31	1.31	2.74	.07	.01
IN.	.24	3.62	2.19	1.42	1.40	3.91	2.67	.36	1.46	3.16	.08	.01

CAL YR 1972 TOTAL 5,047.74 MEAN 13.8 MAX 480 MIN .08 CFSM .96 IN 13.04
WTR YR 1973 TOTAL 7,940.67 MEAN 21.8 MAX 692 MIN .03 CFSM 1.51 IN 20.51

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1300	11.59	814	06-27	1400	10.95	535
12-30	2400	11.17	608	07-21	1300	11.23	632
03-11	unknown	11.57	802	07-26	0300	13.23	1,930
03-25	1600	11.14	596				

03342250 Mud Creek near Dugger, Ind.

LOCATION.--Lat 39°06'28", long 87°16'42", in SE 1/4 NE 1/4 sec.27, T.8 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on County Road 700 East, 0.6 mile (1.0 km) north of County Road 100 North, 1.7 miles (2.7 km) upstream from mouth, and 2.5 miles (4.0 km) northwest of Dugger.

DRAINAGE AREA.--11.9 sq mi (30.8 sq km).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 466.41 ft (142.162 m) above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--7 years, 14.0 cfs (0.396 cu m/s), 15.98 in/yr (406 mm/yr.)

EXTREMES.--Current year: Maximum discharge, 580 cfs (16.4 cu m/s) Mar. 25, gage height, 11.63 ft (3.545 m); minimum daily, 1.3 cfs (0.037 cu m/s) Oct. 3.

Period of record: Maximum discharge, 906 cfs (25.7 cu m/s) Apr. 16, 1972, gage height, 13.63 ft (4.154 m); minimum daily, 0.44 cfs (0.012 cu m/s) Nov. 22, 1968.

REMARKS.--Records good. Flow affected by surface-mined areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	61	9.2	23	26	8.9	36	20	7.4	8.0	3.2	2.0
2	1.6	195	8.6	14	84	12	30	21	28	6.9	2.7	1.8
3	1.3	28	8.6	61	33	17	24	16	24	6.3	2.3	1.8
4	41	16	10	49	22	18	23	15	35	6.3	2.1	1.8
5	23	11	9.9	24	19	27	23	13	40	5.8	2.1	1.8
6	11	9.9	22	20	16	16	20	13	24	5.3	2.1	1.8
7	6.1	31	18	14	16	22	18	18	16	4.8	2.1	1.6
8	3.9	22	63	13	16	15	29	75	9.5	4.8	2.0	2.0
9	3.0	12	40	11	14	78	27	24	8.0	4.4	3.4	2.3
10	2.5	11	20	10	12	75	24	20	6.9	4.6	3.0	1.8
11	2.3	9.2	20	9.4	11	205	22	16	6.1	4.4	2.3	1.8
12	2.5	7.7	31	9.0	11	45	20	14	5.6	3.9	9.2	1.6
13	2.5	122	66	8.4	10	33	17	13	5.6	3.6	7.2	1.6
14	2.5	64	22	8.2	19	36	15	12	5.1	3.6	4.1	1.8
15	2.3	22	17	8.0	24	33	14	11	6.6	3.6	2.7	1.6
16	2.3	15	15	8.8	16	37	20	10	5.6	3.4	2.3	1.5
17	2.3	13	14	11	13	125	21	9.5	6.1	3.2	2.1	1.6
18	2.3	11	13	26	10	44	33	9.2	4.8	3.0	2.0	1.5
19	2.1	28	15	31	9.0	30	56	8.9	16	3.0	2.0	1.5
20	2.0	27	21	16	11	47	62	8.0	7.4	3.2	2.0	1.6
21	2.0	16	18	36	11	42	30	7.7	5.3	32	1.8	1.6
22	4.4	14	16	42	11	29	163	8.0	4.8	9.2	1.6	1.6
23	5.6	12	13	23	10	22	171	8.3	4.1	6.3	1.6	1.6
24	3.2	10	13	16	9.5	19	61	7.7	13	5.6	1.8	1.6
25	2.5	12	12	14	9.5	273	38	7.2	7.2	4.4	1.8	1.8
26	2.5	17	11	13	9.2	132	30	6.9	5.6	4.6	1.6	1.8
27	3.0	15	11	14	8.9	47	25	16	126	4.4	1.6	1.6
28	3.2	11	9.2	20	8.6	36	21	12	54	3.4	1.6	1.8
29	3.0	9.5	9.9	18	-----	30	19	14	14	3.0	1.6	2.0
30	2.7	9.5	40	14	-----	24	18	11	9.5	3.6	3.6	1.6
31	8.9	-----	47	13	-----	40	-----	8.6	-----	3.4	1.8	-----
TOTAL	159.8	841.8	643.4	597.8	469.7	1,617.9	1,110	454.0	511.2	172.0	81.3	51.8
MEAN	5.15	28.1	20.8	19.3	16.8	52.2	37.0	14.6	17.0	5.55	2.62	1.73
MAX	41	195	66	61	84	273	171	75	126	32	9.2	2.3
MIN	1.3	7.7	8.6	8.0	8.6	8.9	14	6.9	4.1	3.0	1.6	1.5
CFSM	.43	2.36	1.75	1.62	1.41	4.39	3.11	1.23	1.43	.47	.22	.15
IN.	.50	2.63	2.01	1.87	1.47	5.06	3.47	1.42	1.60	.54	.25	.16
CAL YR 1972	TOTAL 3,974.3	MEAN 10.9	MAX 323	MIN 1.1	CFSM .92	IN 12.42						
WTR YR 1973	TOTAL 6,710.7	MEAN 18.4	MAX 273	MIN 1.3	CFSM 1.55	IN 20.98						

03342300 Busseron Creek near Sullivan, Ind.

LOCATION.—Lat 39°04'33", long 87°23'11", in SE 1/4 NW 1/4 sec.2, T.7 N., R.9 W., Sullivan County, on left bank at upstream side of bridge on State Road 54, 1.5 miles (2.4 km) southeast of Sullivan, 1.6 miles (2.6 km) east of intersection of U.S. Highway 41 and State Road 54, and 1.7 miles (2.7 km) upstream from Buttermilk Creek.

DRAINAGE AREA.—138 sq mi (357 sq km).

PERIOD OF RECORD.—June 1966 to current year.

GAGE.—Water-stage recorder. Datum of gage is 440.00 ft (134.112 m) above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.—7 years, 137 cfs (3.880 cu m/s), 13.48 in/yr (342 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,200 cfs (62.3 cu m/s) Mar. 12, gage height, 13.74 ft (4.188 m); minimum daily, 3.6 cfs (0.10 cu m/s) Sept. 18, 19.

Period of record: Maximum discharge, 5,480 cfs (155 cu m/s) Jan. 30, 1969, gage height, 15.83 ft (4.825 m); minimum daily, 0.9 cfs (0.025 cu m/s) Sept. 8, 1966.

REMARKS.—Records good. Flow affected by surface-mined areas and Soil Conservation Service floodwater-retarding structures.

REVISIONS (WATER YEARS).—WRD Ind. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	573	136	517	248	49	511	132	58	126	93	5.8
2	83	1,290	126	252	1,080	52	364	152	100	89	63	5.3
3	60	1,850	120	300	1,000	118	262	129	230	70	47	4.1
4	152	1,200	120	978	445	126	236	94	350	63	35	4.3
5	453	432	118	465	286	428	211	78	779	54	27	6.8
6	145	307	312	247	184	243	170	68	394	43	24	5.6
7	82	347	239	196	144	287	150	68	212	35	21	4.8
8	58	594	327	165	110	227	266	369	131	30	19	4.6
9	44	274	572	141	90	378	245	202	97	28	22	7.1
10	32	201	278	100	80	884	234	134	75	30	25	8.2
11	27	170	153	80	72	1,360	216	104	62	42	19	8.2
12	24	132	160	62	66	2,020	183	82	52	28	18	7.1
13	22	557	930	54	71	1,000	147	67	44	21	30	5.0
14	20	1,340	517	50	87	455	124	59	37	18	22	4.8
15	17	904	239	48	192	415	111	53	35	17	28	4.8
16	16	430	155	50	120	324	129	48	45	15	22	4.3
17	15	260	130	57	81	1,120	334	44	41	13	17	4.3
18	13	188	150	84	75	1,250	230	41	38	12	15	3.6
19	12	248	176	360	72	497	484	38	107	12	16	3.6
20	10	516	300	176	76	469	1,020	36	110	13	13	3.9
21	9.8	249	339	157	73	968	550	32	81	233	11	4.8
22	16	192	316	559	65	434	789	33	49	616	9.0	4.1
23	64	163	212	371	64	295	1,460	40	37	567	8.6	5.0
24	68	128	203	200	59	237	1,630	37	64	244	7.8	5.0
25	37	116	213	145	57	712	612	35	148	114	7.5	6.1
26	28	184	198	123	56	1,690	398	40	51	612	8.2	5.8
27	25	251	180	123	53	1,930	288	50	682	1,250	7.1	5.6
28	26	192	159	139	50	668	212	62	1,200	552	7.1	5.3
29	27	151	146	269	-----	393	168	90	466	189	7.1	6.8
30	24	139	315	135	-----	338	138	80	194	127	6.8	5.3
31	38	-----	1,040	145	-----	434	-----	70	-----	100	14	-----
TOTAL	1,778.8	13,578	8,579	6,748	5,056	19,801	11,872	2,567	5,969	5,363	670.2	160.0
MEAN	57.4	453	277	218	181	639	396	82.8	199	173	21.6	5.33
MAX	453	1,850	1,040	978	1,080	2,020	1,630	369	1,200	1,250	93	8.2
MIN	9.8	116	118	48	50	49	111	32	35	12	6.8	3.6
CFSM	.42	3.28	2.01	1.58	1.31	4.63	2.87	.60	1.44	1.25	.16	.04
IN.	.44	3.66	2.31	1.82	1.36	5.34	3.20	.69	1.61	1.45	.18	.04
CAL YR 1972	TOTAL 48,846.3	MEAN 133	MAX 2,130	MIN 2.7	CFSM .96	IN 13.17						
WTR YR 1973	TOTAL 82,142.0	MEAN 225	MAX 2,020	MIN 3.6	CFSM 1.63	IN 22.14						

03342350 Buttermilk Creek near Paxton, Ind.

LOCATION.--Lat 39°03'43", long 87°20'37", in SE 1/4 NW 1/4 sec.7, T.7 N., R.8 W., Sullivan County, on left bank at downstream side of bridge, 3 miles (5 km) northeast of Paxton, and 3 miles (5 km) upstream from mouth.

DRAINAGE AREA.--16.5 sq mi (42.7 sq km).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 450.08 ft (137.184 m) above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--7 years, 15.5 cfs (0.439 cu m/s), 12.76 in/yr (324 mm/yr).

EXTREMES.--Current year: Maximum discharge, 401 cfs (11.4 cu m/s) Nov. 2, gage height, 12.61 ft (3.844 m); no flow July 12, 14, 29, Aug. 2-7, Sept. 2-7.

Period of record: Maximum discharge, 442 cfs (12.5 cu m/s) Apr. 4, 1968, gage height, 13.02 ft (3.968 m); no flow at times most years.

REMARKS.--Records fair. Flow affected by surface-mined areas. Some of the flow was diverted, by-passing the gage and re-entering the stream about 1,000 ft (305 m) below the gage, beginning in May 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	140	9.8	28	163	7.7	43	19	2.2	2.2	.02	.10
2	2.6	256	8.1	17	70	15	35	25	2.2	.83	0	0
3	1.9	61	7.3	94	36	22	28	18	2.8	1.9	0	0
4	32	29	9.0	104	26	42	34	15	2.2	1.1	0	0
5	62	18	9.0	30	20	41	28	13	4.8	.49	0	0
6	10	12	60	30	17	27	24	14	3.8	.19	0	0
7	5.7	69	19	20	14	41	21	13	5.0	.25	0	0
8	2.6	60	145	13	13	20	56	88	3.4	.40	.10	.14
9	2.3	29	91	12	11	152	44	28	1.6	.07	1.9	3.3
10	1.2	24	41	11	10	182	42	20	1.1	.04	1.8	1.3
11	.71	21	30	10	10	178	35	15	.94	.04	.19	.49
12	.94	17	61	9.0	10	50	22	12	2.6	0	.60	.14
13	.71	208	137	8.0	11	34	16	12	1.3	.02	1.9	.04
14	.83	129	42	7.5	43	51	14	11	.94	0	2.8	.94
15	.94	50	26	6.8	29	34	13	11	.94	.04	2.6	2.2
16	.94	32	20	6.4	20	110	19	9.8	1.1	.02	2.3	2.2
17	1.2	24	16	8.1	15	169	25	6.6	.83	1.1	2.4	2.9
18	1.5	15	14	84	12	51	38	2.0	.32	1.5	3.4	2.0
19	1.8	67	22	21	12	32	77	2.8	1.9	.94	5.0	.25
20	1.9	57	56	16	11	65	85	1.3	.71	3.1	2.8	.10
21	2.2	26	43	109	11	41	31	.25	.32	6.9	.14	.14
22	4.7	20	39	46	10	27	178	.49	.71	2.4	1.8	1.5
23	11	16	26	20	8.8	21	243	2.4	1.5	.83	1.5	.19
24	5.3	15	26	15	8.1	18	71	3.9	13	2.2	2.2	.02
25	4.1	13	22	13	7.7	262	36	3.6	13	.71	.25	.25
26	3.9	35	18	14	8.1	184	28	3.8	1.8	.14	1.5	.60
27	4.5	27	18	18	8.3	61	32	3.4	134	.07	1.8	.25
28	5.0	14	11	52	7.7	41	25	1.6	51	.02	.49	.19
29	5.2	10	13	21	-----	33	21	2.0	7.5	0	.19	.25
30	5.3	9.8	83	16	-----	26	16	3.4	3.3	.19	.19	.14
31	15	-----	101	24	-----	51	-----	2.9	-----	.14	.19	-----
TOTAL	202.27	1,503.8	1,223.2	883.8	622.7	2,088.7	1,380	364.24	266.81	27.83	38.06	19.63
MEAN	6.52	50.1	39.5	28.5	22.2	67.4	46.0	.7	8.89	.90	1.23	.65
MAX	62	256	145	109	163	262	243	38	134	6.9	5.0	3.3
MIN	.71	9.8	7.3	6.4	7.7	7.7	13	.25	.32	0	0	0
CFSM	.40	3.04	2.39	1.73	1.35	4.08	2.79	.71	.54	.05	.07	.04
IN.	.46	3.39	2.76	1.99	1.40	4.71	3.11	.82	.60	.06	.09	.04
CAL YR 1972	TOTAL 5,348.94	MEAN 14.6	MAX 268	MIN 0	CFSM .88	IN 12.06						
WTR YR 1973	TOTAL 8,621.04	MEAN 23.6	MAX 262	MIN 0	CFSM 1.43	IN 19.44						

03342500 Busseron Creek near Carlisle, Ind.

LOCATION.--Lat 38°58'26", long 87°25'33", in NW 1/4 survey 17, Vincennes Tract, Sullivan County, on left bank 10 ft (3 m) downstream from bridge on State Highway 58, 1.5 miles (2.4 km) northwest of Carlisle, and 6.8 miles (10.9 km) upstream from mouth.

DRAINAGE AREA.--228 sq mi (591 sq km).

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 425.36 ft (129.650 m) above mean sea level (Indiana State Highway Department bench mark). Prior to Nov. 8, 1950, nonrecording gage at same site and datum. Nov. 8, 1950, to Oct. 31, 1969, at site 200 ft (61 m) upstream at same datum.

AVERAGE DISCHARGE.--30 years, 210 cfs (5.947 cu m/s), 12.51 in/yr (318 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,620 cfs (74.2 cu m/s) Apr. 23, gage height, 14.53 ft (4.429 m); minimum daily, 6.0 cfs (0.17 cu m/s) Sept. 4.

Period of record: Maximum discharge, 8,800 cfs (249 cu m/s) Jan. 5, 1950, gage height, 20.05 ft (6.111 m); maximum gage height, 20.30 ft (6.187 m) May 9, 1961; no flow many days in 1954.

REMARKS.--Records good. Flow affected by Soil Conservation Service floodwater-retarding structures and surface-mined areas.

REVISIONS.--WSP 1335: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	767	176	1,270	376	69	854	193	77	172	103	10
2	124	1,890	159	529	1,420	72	619	211	104	125	79	7.3
3	89	1,770	147	510	1,470	158	417	196	347	95	57	6.7
4	76	1,730	145	1,310	1,190	180	406	147	364	115	45	6.0
5	573	1,720	146	1,190	512	678	350	126	817	81	35	7.3
6	279	1,020	380	510	292	475	263	113	781	62	29	7.1
7	130	625	428	353	217	419	216	111	322	49	29	6.7
8	89	1,020	643	282	211	195	433	643	182	46	24	6.2
9	67	560	1,160	70	130	595	432	380	134	42	63	9.1
10	52	339	664	190	100	1,330	382	211	105	48	70	13
11	42	277	284	135	94	2,290	350	159	86	47	31	11
12	39	209	271	100	88	2,230	277	126	75	42	48	9.9
13	36	901	1,240	85	103	2,140	211	102	67	32	129	8.3
14	32	1,750	1,190	76	145	1,910	167	89	56	27	34	8.0
15	25	1,630	524	72	391	1,370	143	80	54	25	32	8.5
16	22	1,360	265	70	220	760	143	75	62	22	29	9.1
17	20	573	220	70	127	1,550	395	71	62	21	22	8.5
18	18	310	200	135	142	1,670	425	61	52	20	20	9.1
19	17	390	246	674	108	1,560	812	57	147	19	20	7.8
20	16	871	463	350	109	1,100	1,430	53	149	21	19	6.7
21	14	506	553	300	105	1,210	1,280	48	110	131	14	6.7
22	15	350	544	990	93	1,050	1,340	46	70	577	12	6.9
23	59	295	380	758	91	494	2,310	54	55	651	12	8.0
24	110	226	345	364	83	354	2,440	54	56	415	11	7.3
25	58	194	373	241	79	990	2,110	51	211	128	11	7.3
26	40	297	317	194	78	2,160	1,500	47	79	288	9.9	8.3
27	34	406	275	202	75	2,180	630	70	562	892	11	8.3
28	35	300	224	274	71	2,230	362	98	1,130	1,030	9.6	7.6
29	36	215	230	465	-----	1,680	275	127	1,110	415	8.5	8.0
30	35	187	522	244	-----	822	211	110	395	197	8.8	8.3
31	52	-----	1,390	202	-----	645	-----	102	-----	124	12	-----
TOTAL	2,547	22,688	14,104	12,215	8,120	34,766	21,183	4,011	7,821	5,959	1,037.8	243.0
MEAN	82.2	756	455	394	290	1,121	706	129	261	192	33.5	8.10
MAX	573	1,890	1,390	1,310	1,470	2,290	2,440	643	1,130	1,030	129	13
MIN	14	187	145	70	71	69	143	46	52	19	8.5	6.0
CFSM	.36	3.32	2.00	1.73	1.27	4.92	3.10	.57	1.14	.84	.15	.04
IN.	.42	3.70	2.30	1.99	1.32	5.67	3.46	.65	1.28	.97	.17	.04

CAL YR 1972 TOTAL 81,548.4 MEAN 223 MAX 2,300 MIN 3.8 CFSM .98 IN 13.31
WTR YR 1973 TOTAL 134,694.8 MEAN 369 MAX 2,440 MIN 6.0 CFSM 1.62 IN 21.98

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-11	1500	14.35	2,520	04-23	2200	14.53	2,620
03-28	0600	13.76	2,250				

LOCATION.--Lat 38°42'26", long 87°31'10", in NW 1/4 SW 1/4 sec.10, T.3 N., R.10 W., Knox County, near center of span on downstream side of bridge on U.S. Highway 50 at the Indiana-Illinois State line, 4.9 miles (7.9 km) downstream from Maria Creek, 7.7 miles (12.4 km) upstream from Embarras River, and at mile 129.8 (208.8 km).

PERIOD OF RECORD.--October 1929 to current year. Prior to December 1929 monthly discharge only, published in WSP 1305. Gage-height records for flood peaks in 1867 and 1883, intermittent records 1887-1904, and continuous since November 1904, collected at site 2.1 miles (3.4 km) downstream, are contained in reports of U.S. Weather Bureau.

AVERAGE DISCHARGE.--44 years, 11,500 cfs (325.7 cu m/s), 11.40 in/yr (290 mm/yr).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs and power development.

REVISIONS (WATER YEARS).--WSP 1173: 1943 (maximum gage height only). WSP 1335: 1930-31, 1933, 1936. WSP 1909: 1955.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22,700	12,100	28,400	31,800	21,800	9,650	42,900	42,400	12,200	16,200	13,500	6,160
2	23,700	17,800	27,300	33,600	24,100	9,410	42,900	38,400	13,200	15,400	12,400	5,830
3	24,600	25,700	26,100	35,400	26,000	9,410	41,800	34,500	14,400	14,500	13,400	5,370
4	25,200	28,200	24,800	38,800	26,600	9,460	40,600	31,000	14,000	13,500	14,000	5,020
5	25,200	29,400	22,800	44,500	26,800	10,100	39,700	27,500	15,600	13,000	12,900	4,750
6	23,500	29,500	21,200	49,600	26,800	12,200	38,700	24,100	22,100	12,800	11,200	4,530
7	21,300	29,600	20,900	51,800	27,000	14,800	37,800	21,900	26,800	11,600	9,790	4,210
8	20,300	30,500	23,000	51,400	26,800	18,400	36,700	21,400	28,000	10,500	8,420	4,090
9	19,300	30,100	26,000	49,900	25,700	19,800	35,000	20,200	28,400	9,720	7,520	4,070
10	17,900	28,700	26,600	47,300	24,500	22,800	33,200	18,500	28,800	9,000	7,060	3,980
11	16,800	27,400	25,400	43,400	23,000	27,800	31,000	16,400	29,200	8,400	6,460	3,890
12	15,500	26,700	23,400	36,200	20,900	32,700	28,900	14,800	29,100	7,940	6,050	3,770
13	13,800	26,800	24,600	27,700	18,300	35,000	26,900	14,000	27,400	7,300	6,420	3,540
14	13,500	30,200	27,800	20,900	15,900	36,700	25,200	13,400	24,600	6,720	6,260	3,410
15	14,600	31,600	29,600	18,600	14,800	38,200	24,200	12,600	22,500	6,230	7,040	3,370
16	15,100	32,400	30,500	18,300	14,100	39,900	23,900	12,200	21,700	6,050	11,200	4,600
17	14,800	33,100	30,800	18,800	13,200	42,600	24,700	11,700	21,000	5,760	14,000	5,150
18	13,800	33,700	31,400	19,900	12,500	45,000	25,700	11,200	20,100	5,410	16,100	4,660
19	12,900	34,600	30,400	22,200	12,000	46,000	26,800	10,800	22,000	5,130	16,600	4,140
20	12,200	35,800	27,800	23,300	11,700	46,600	29,500	10,100	26,400	4,880	16,600	3,790
21	11,600	36,700	25,900	23,100	11,400	47,500	30,800	9,460	28,600	6,490	15,700	3,740
22	11,100	37,100	26,500	24,200	11,200	47,600	32,200	9,220	28,700	18,500	14,200	3,770
23	10,200	37,100	27,400	24,400	11,000	46,800	35,200	9,220	26,900	22,600	12,700	3,600
24	9,620	36,600	27,800	23,100	10,900	45,200	37,900	9,120	22,400	18,200	11,400	3,600
25	10,500	35,800	27,800	22,800	10,900	44,000	39,100	9,050	17,500	15,800	11,100	3,680
26	13,100	34,800	27,800	23,100	10,700	45,600	40,900	9,050	14,400	18,100	10,600	3,720
27	14,600	33,700	26,800	22,800	10,300	45,600	43,300	9,170	14,200	19,900	9,720	3,740
28	14,300	32,400	26,000	21,800	10,000	44,300	45,400	9,000	20,200	22,200	8,520	3,770
29	13,400	30,800	25,400	21,500	-----	43,100	46,400					

CAL	YR 1972	TOTAL	5,584,620	MEAN	15,260	MAX	53,700	MIN	2,700	CFSM	1.11	IN	15.16
WTR	YR 1973	TOTAL	7,765,900	MEAN	21,280	MAX	51,800	MIN	3,370	CFSM	1.55	IN	21.08

03345500 Embarras River at Ste. Marie, Ill.

LOCATION.—Lat 38°56'10", long 88°01'10", in NW 1/4 NW 1/4 sec.30, T.6 N., R.14 W., Jasper County, on right bank at upstream side of highway bridge at Ste. Marie.

DRAINAGE AREA.—1,516 sq mi (3,926 sq km), revised.

PERIOD OF RECORD.—October 1909 to December 1912, August 1914 to current year.

GAGE.—Water-stage recorder. Datum of gage is 445.75 ft (135.86 m) above mean sea level (levels by Corps of Engineers). Prior to June 29, 1940, nonrecording gage and June 29, 1940, to Jan. 24, 1967, water-stage recorder at same site at datum 1.00 ft (0.30 m) higher.

AVERAGE DISCHARGE —62 years, 1,185 cfs (33.6 cu m/s), 10.61 in/yr (269 mm/yr).

EXTREMES.—Current year: Maximum discharge, 13,100 cfs (371 cu m/s) July 26, gage height, 20.11 ft (6.130 m); minimum, 119 cfs (3.37 cu m/s) Sept. 30.

Period of record: Maximum discharge, 44,800 cfs (1,270 cu m/s) Jan. 4, 1950, gage height, 25.95 ft (7.910 m), present datum, from rating curve extended above 29,000 cfs (821 cu m/s); maximum gage height, 26.54 ft (8.089 m), present datum, June 30, 1957; minimum discharge, 1 cfs (0.028 cu m/s) Oct. 5-9, 1914.

REMARKS.—Records good except those for winter periods, which are poor.

REVISIONS (WATER YEARS).—WSP 1083: 1934. WSP 1113: 1910-31, 1933, 1939-40, 1945(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,070	616	1,350	8,200	1,850	561	6,540	2,170	591	3,570	3,730	301
2	1,120	3,840	1,290	9,680	3,250	566	7,050	2,000	564	2,020	2,670	253
3	1,210	4,510	1,240	8,740	2,840	623	6,150	1,780	733	2,100	2,180	226
4	1,260	2,530	1,160	8,000	2,200	822	4,520	1,500	756	1,530	1,840	210
5	1,210	2,280	1,080	8,120	1,860	3,580	4,100	1,340	2,560	1,570	1,580	199
6	1,070	2,480	1,270	8,030	1,710	4,240	3,400	1,220	3,470	1,320	1,320	189
7	968	2,660	1,760	7,100	1,550	2,520	2,730	1,150	2,600	1,170	1,110	181
8	810	2,750	1,750	4,120	1,450	2,750	2,340	1,600	2,160	1,030	1,090	166
9	682	2,250	1,810	2,630	1,330	2,270	2,090	1,470	2,040	891	978	157
10	589	1,850	1,610	1,990	1,180	4,150	2,010	1,150	1,720	836	827	148
11	518	1,870	1,370	1,520	1,060	7,160	1,990	1,000	1,320	963	713	145
12	459	1,660	1,310	1,260	966	9,010	1,820	888	1,030	827	653	145
13	411	2,620	3,240	1,140	945	11,200	1,640	799	909	702	1,230	152
14	377	6,000	4,440	1,060	952	8,990	1,500	733	951	592	876	156
15	349	6,610	3,480	1,020	1,250	7,910	1,370	682	732	536	582	149
16	335	5,790	2,830	978	1,220	7,700	1,350	647	710	497	555	140
17	317	4,220	2,450	971	896	7,580	2,050	608	778	464	587	136
18	300	3,920	2,060	1,010	788	7,440	1,840	583	985	426	705	124
19	282	3,890	1,720	2,800	722	7,200	2,110	595	4,170	399	776	170
20	273	3,760	1,800	3,850	734	6,350	4,220	568	5,980	379	694	181
21	262	3,220	2,180	2,310	725	6,280	4,620	535	5,210	994	547	166
22	254	2,540	2,180	2,720	686	6,500	4,720	517	3,610	3,460	459	154
23	246	2,240	2,110	3,470	656	5,380	6,470	505	3,540	4,620	404	147
24	241	2,030	2,000	2,470	644	3,560	7,160	494	3,430	5,870	367	142
25	253	1,860	1,920	1,970	632	4,150	7,410	488	2,700	7,230	331	140
26	262	1,840	1,690	1,750	612	6,990	6,860	513	1,840	10,400	307	135
27	309	1,960	1,370	1,620	598	7,990	6,790	526	3,220	10,500	285	131
28	325	1,750	1,160	1,710	582	8,070	7,000	517	5,860	9,100	270	128
29	309	1,540	1,260	1,830	-----	6,060	6,490	526	6,710	7,250	281	127
30	292	1,430	4,240	1,570	-----	4,760	3,420	526	6,990	6,100	320	121
31	304	-----	7,080	1,460	-----	4,950	-----	589	-----	5,280	365	-----
TOTAL	16,667	86,516	66,210	105,099	33,888	167,312	121,760	28,219	77,869	92,626	28,632	4,919
MEAN	538	2,884	2,136	3,390	1,210	5,397	4,059	910	2,596	2,988	924	164
MAX	1,260	6,610	7,080	9,680	3,250	11,200	7,410	2,170	6,990	10,500	3,730	301
MIN	241	616	1,080	971	582	561	1,350	488	564	379	270	121
CFSM	.36	1.91	1.41	2.24	.80	3.57	2.68	.60	1.72	1.97	.61	.11
IN.	.41	2.13	1.63	2.58	.83	4.11	2.99	.69	1.91	2.28	.79	.12
CAL YR 1972	TOTAL 372,534	MEAN 1,018	MAX 7,380	MIN 83	CFSM .67	IN 9.16						
WTR YR 1973	TOTAL 829,717	MEAN 2,273	MAX 11,200	MIN 121	CFSM 1.50	IN 20.40						

03346000 North Fork Embarras River near Oblong, Ill.

LOCATION.--Lat 39°00'01", long 87°56'42", in NW 1/4 SE 1/4 sec.35, T.7 N., R.14 W., Crawford County, at upstream side of pier of bridge on county highway, 200 ft (61 m) downstream from Illinois Central Gulf Railroad bridge, 2 miles (3 km) west of Oblong, and 7.8 miles (12.6 km) upstream from mouth.

DRAINAGE AREA.--318 sq mi (824 sq km), revised.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 456.19 ft (139.05 m) above mean sea level. Prior to Dec. 11, 1940, nonrecording gage and Dec. 11, 1940, to Sept. 30, 1964, water-stage recorder at site 0.8 mile (1.3 km) upstream at datum 2.00 ft (0.61 m) higher. Oct. 1, 1964, to Oct. 8, 1971, water-stage recorder at site 0.8 mile (1.3 km) upstream at present datum.

AVERAGE DISCHARGE.--33 years, 241 cfs (6.83 cu m/s), 10.29 in/yr (261 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,410 cfs (153 cu m/s) Mar. 11, gage height, 17.63 ft (5.374 m); minimum, 2.3 cfs (0.065 cu m/s) Oct. 20, 22.

Period of record: Maximum discharge, 27,100 cfs (767 cu m/s) Jan. 4, 1950, gage height, 24.38 ft (7.431 m), present datum, from rating curve extended above 16,000 cfs (453 cu m/s); no flow for many days in 1953-54, 1964.

REMARKS.--Records fair except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	52	118	4,140	420	60	2,230	113	43	201	82	16
2	3.3	1,520	107	2,540	1,620	66	2,490	153	27	142	58	12
3	3.6	1,960	92	628	1,660	130	881	206	84	99	47	11
4	3.7	798	81	1,520	620	224	446	139	278	150	41	9.6
5	3.4	231	75	1,590	321	1,620	415	104	1,170	162	36	8.8
6	3.2	151	168	622	253	2,070	311	86	1,890	163	87	8.4
7	18	129	356	224	199	1,160	254	79	1,000	94	100	8.0
8	12	238	222	160	150	788	224	159	178	64	45	8.0
9	7.8	238	249	130	120	556	210	164	128	52	36	8.4
10	5.7	161	205	110	100	1,520	261	113	93	50	38	11
11	4.5	197	136	100	103	3,570	314	82	69	94	35	9.6
12	4.1	249	168	90	103	4,830	272	65	55	69	50	9.6
13	3.8	643	1,210	80	107	2,970	228	51	103	42	179	8.0
14	3.6	2,050	1,600	70	110	1,210	185	43	181	33	164	7.7
15	3.1	2,600	1,200	65	174	2,180	163	38	79	28	132	7.1
16	2.6	1,960	500	65	206	2,050	163	36	206	25	71	6.5
17	2.5	381	250	70	112	1,570	359	33	186	23	36	5.9
18	2.6	229	150	113	90	2,290	333	30	176	20	27	5.6
19	2.5	197	139	830	80	1,460	631	28	1,410	19	22	5.0
20	2.4	376	298	849	89	774	1,550	26	3,140	18	20	4.5
21	2.4	367	453	304	93	1,700	1,320	24	2,060	256	18	4.8
22	3.1	228	401	763	88	1,380	1,180	22	298	883	16	4.5
23	4.3	187	325	1,370	80	396	2,470	22	209	1,450	16	5.0
24	4.4	164	297	495	78	284	2,770	22	122	990	14	5.0
25	3.9	145	402	254	73	938	935	21	93	493	14	4.8
26	4.1	225	396	209	69	2,870	299	20	70	886	14	4.5
27	5.6	458	266	216	68	3,380	217	22	766	251	13	4.0
28	5.4	299	185	368	64	1,450	172	27	2,150	159	12	4.0
29	5.0	183	302	690	-----	415	143	34	3,140	109	12	4.3
30	4.5	140	1,600	309	-----	607	123	34	968	84	16	4.5
31	5.3	-----	3,250	217	-----	1,010	-----	67	-----	84	14	-----
TOTAL	145.2	16,756	15,201	19,191	7,250	45,528	21,549	2,063	20,372	7,193	1,465	216.1
MEAN	4.68	559	490	619	259	1,469	718	66.5	679	232	47.3	7.20
MAX	18	2,600	3,250	4,140	1,660	4,830	2,770	206	3,140	1,450	179	16
MIN	2.4	52	75	65	64	60	123	20	27	18	12	4.0
CFSM	.01	1.75	1.54	1.94	.81	4.61	2.25	.21	2.13	.73	.15	.02
IN.	.02	1.95	1.77	2.24	.85	5.31	2.51	.24	2.38	.84	.17	.03

CAL YR 1972 TOTAL 69,307.3 MEAN 189 MAX 3,340 MIN 1.8 CFSM .59 IN 8.08
WTR YR 1973 TOTAL 156,929.3 MEAN 430 MAX 4,830 MIN 2.4 CFSM 1.35 IN 18.30

03346900 Prairie Creek Reservoir near Muncie, Ind.

LOCATION.--Lat 40°08'46", long 85°17'35", in NE 1/4 NE 1/4 sec.32, T.20 N., R.11 E., Delaware County, at intake tower of reservoir on Prairie Creek, 0.3 mile (0.5 km) above mouth, and 5.8 miles (9.3 km) southeast of Muncie.

DRAINAGE AREA.--16.8 sq mi (43.5 sq km).

PERIOD OF RECORD.--1962 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by three 24-inch (610 mm) valves. Capacity at uncontrolled spillway elevation, 990 ft (301.8 m) is 22,100 acre-ft (27.2 cu hm). Reservoir is used for low-flow augmentation and recreation. Reservoir was filled for the first time in the spring of 1963.

COOPERATION.--Records furnished by Muncie Water Works Company.

Month-end elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	990.0	21,850	-
Oct. 31.....	990.0	21,850	0
Nov. 30.....	990.0	21,850	0
Dec. 31.....	990.0	21,850	0
Calendar year 1972.....	-	-	-380
Jan. 31.....	990.0	21,850	0
Feb. 28.....	990.0	21,850	0
Mar. 31.....	990.0	21,850	0
Apr. 30.....	990.0	21,850	0
May 31.....	990.0	21,850	0
June 30.....	990.2	22,100	+250
July 31.....	990.0	21,850	-250
Aug. 31.....	990.0	21,850	0
Sept. 30.....	989.2	20,860	-990
Water year 1973.....	-	-	-990

Diversion for municipal supply for city of Muncie

Water supply for the city of Muncie is from White River and augmented by Prairie Creek Reservoir. Water is diverted at Muncie Water Works on Burlington Drive, 3.0 miles (4.8 km) upstream from White River at Muncie (03347000) and returned at sewage disposal plant 3.9 miles (6.3 km) downstream from station.

Diversion, monthly and yearly means in cfs

1972				1973									
Oct.	Nov.	Dec.	Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
0	0	0	15.1	44.9	0	0	0	0	0	11.2	3.7	124	15.3

03347000 White River at Muncie, Ind.

LOCATION.--Lat 40°12'15", long 85°23'14", in SE 1/4 NW 1/4 Hackley Reserve, Delaware County, on right bank 200 ft (61 m) downstream from Walnut Street bridge in Muncie, and 6 miles (10 km) upstream from Bell Creek.

DRAINAGE AREA.--241 sq mi (624 sq km).

PERIOD OF RECORD.--November 1930 to current year. Prior to October 1948, published as West Fork White River at Muncie. Daily gage heights from October 1924 to December 1929 are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 917.10 ft (279.532 m) above mean sea level (city of Muncie bench mark). See WSP 1705 for history of changes prior to Jan. 28, 1942. Jan. 28, 1942, to Apr. 27, 1964, water-stage recorder at present site at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--42 years (1931 to current year), 207 cfs (5.862 cu m/s), 11.65 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,720 cfs (162 cu m/s) June 6, gage height, 9.73 ft (2.966 m); minimum daily, 23 cfs (0.65 cu m/s) Sept. 7.

Period of record: Maximum discharge, 14,300 cfs (405 cu m/s) Apr. 21, 1964; maximum gage height, 21.07 ft (6.422 m) Jan. 15, 1937, present datum; minimum daily discharge, 1.1 cfs (0.031 cu m/s) Sept. 16, 17, 23-25, 1954, and Oct. 10, 1956.

Maximum stage known, 22.6 ft (6.69 m) in March 1913, present datum, discharge, 20,000 cfs (566 cu m/s).

REMARKS.--Records good. Natural flow affected by regulation of Prairie Creek Reservoir (See sta 03346900) and by diversion of municipal water supply by Muncie Water Works Co. Records of diversion available since October 1937.

REVISIONS (WATER YEARS).--WSP 1335: 1931-32(M), 1936(M), 1938, 1948. WSP 1435: 1955. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	512	144	247	539	239	98	776	262	70	231	55	42
2	274	2,620	217	334	675	102	585	239	69	175	48	40
3	172	3,250	194	274	725	116	449	211	70	141	44	38
4	169	1,260	178	830	503	141	417	178	118	131	42	29
5	286	635	188	660	358	235	670	158	1,490	149	40	25
6	231	426	1,330	378	290	326	507	146	4,580	113	33	25
7	182	494	1,480	282	239	278	378	141	3,050	95	27	23
8	141	2,110	735	221	217	322	326	182	1,030	87	25	26
9	106	1,260	539	188	185	346	298	204	548	76	25	31
10	87	715	485	168	160	1,560	322	221	378	80	29	29
11	100	489	370	158	149	2,200	326	178	282	69	47	31
12	141	370	338	148	138	3,110	318	149	243	64	91	28
13	128	557	1,240	140	136	1,120	395	136	270	64	70	28
14	111	3,600	914	130	138	860	330	121	191	59	182	102
15	95	3,550	530	125	155	896	274	113	152	102	395	55
16	85	1,330	420	118	290	645	254	113	141	91	155	46
17	74	690	350	111	585	1,450	346	102	163	85	89	37
18	69	512	330	113	431	1,310	378	100	158	47	69	32
19	62	431	350	121	182	1,060	378	121	121	40	61	32
20	59	605	426	118	155	765	426	136	111	52	374	31
21	61	512	453	116	146	557	390	111	102	123	507	31
22	64	395	476	346	138	435	1,150	100	85	133	182	33
23	64	326	453	730	136	358	2,080	98	78	89	104	36
24	55	274	426	431	121	310	1,210	91	72	111	91	32
25	52	251	426	228	113	399	655	91	64	270	85	28
26	52	298	378	200	109	1,580	449	95	78	217	70	25
27	52	330	314	221	102	1,580	346	93	1,590	178	56	27
28	58	374	262	310	100	770	282	100	1,900	128	44	24
29	61	318	228	530	-----	552	231	91	695	87	38	26
30	56	270	274	338	-----	580	228	87	362	67	35	30
31	58	-----	498	231	-----	570	-----	80	-----	59	41	-----
TOTAL	3,717	28,396	15,049	8,837	6,915	24,631	15,174	4,248	18,261	3,413	3,154	1,022
MEAN	120	947	485	285	247	795	506	137	609	110	102	34.1
MAX	512	3,600	1,480	830	725	3,110	2,080	262	4,580	270	507	102
MIN	52	144	178	111	100	98	228	80	64	40	25	23
CFSM	.50	3.93	2.01	1.18	1.02	3.30	2.10	.57	2.53	.46	.42	.14
IN.	.57	4.38	2.32	1.36	1.07	3.80	2.34	.66	2.82	.53	.49	.16

CAL YR 1972 TOTAL 109,530.5 MEAN 299 MAX 3,600 MIN 9.7 CFSM 1.24 IN 16.91
WTR YR 1973 TOTAL 132,817.0 MEAN 364 MAX 4,580 MIN 23 CFSM 1.51 IN 20.50

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0700	8.25	3,820	04-23	0300	7.25	2,410
11-15	0200	8.80	4,420	06-06	1500	9.73	5,720
03-12	0700	8.37	3,840	06-28	0200	7.87	3,190

03347500 Buck Creek near Muncie, Ind.

LOCATION.—Lat 40°08'05", long 85°22'25", in SW 1/4 SE 1/4 sec.34, T.20 N., R.10 E., Delaware County, on left bank at downstream side of highway bridge, 1.0 mile (1.6 km) upstream from Muncie Water Works Co. pumping station, and 4.2 miles (6.8 km) south-east of courthouse in Muncie.

DRAINAGE AREA.—35.5 sq mi (91.9 sq km).

PERIOD OF RECORD.—October 1954 to current year.

GAGE.—Water-stage recorder. Datum of gage is 944.67 ft (287.935 m) above mean sea level. Prior to May 5, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—18 years, 34.1 cfs (0.966 cu m/s), 13.04 in/yr (331 mm/yr).

EXTREMES.—Current year: Maximum discharge, 775 cfs (21.9 cu m/s) June 5, gage height, 9.77 ft (2.978 m); minimum daily, 16 cfs (0.45 cu m/s) Sept. 20, 21, 24-27.

Period of record: Maximum discharge, 1,780 cfs (50.4 cu m/s) Apr. 21, 1964, gage height, 13.96 ft (4.255 m); minimum daily, 5.6 cfs (0.16 cu m/s) Dec. 20, 1964.

Maximum stage known, about 15 ft (4.6 m), from information by local residents. Date unknown.

REMARKS.—Records good, except for period of no gage-height record, which is fair.

REVISIONS (WATER YEARS).—WSP 1909: 1955, 1957. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	07	41	50	56	28	97	56	36	37	26	18
2	29	448	38	43	87	30	81	53	34	34	25	18
3	23	143	36	50	79	32	69	50	34	33	24	18
4	31	81	36	102	59	36	69	47	74	38	24	17
5	38	59	36	61	52	40	70	44	357	36	23	17
6	31	49	215	48	48	41	60	43	461	32	22	17
7	27	99	86	41	44	44	54	43	142	31	22	17
8	24	160	64	39	41	53	53	56	83	29	21	17
9	21	77	62	36	38	87	53	49	64	29	25	18
10	20	60	55	34	36	210	55	45	54	29	24	18
11	27	50	45	32	34	250	58	43	48	28	23	17
12	35	44	60	31	32	185	61	41	49	27	33	17
13	28	140	202	31	34	128	58	40	46	27	26	17
14	25	499	81	31	43	103	55	40	41	27	48	22
15	23	162	61	31	58	100	51	39	39	28	36	18
16	22	95	50	31	47	91	53	39	39	27	27	18
17	21	72	42	32	41	143	62	38	56	26	24	18
18	20	60	41	33	37	129	57	38	42	26	22	18
19	19	61	46	35	35	119	63	41	38	26	21	17
20	19	76	74	32	34	95	73	39	37	38	22	16
21	20	58	61	32	32	80	62	38	35	60	20	16
22	19	51	61	71	31	68	268	38	35	36	20	17
23	20	46	56	78	31	56	189	38	34	31	20	17
24	19	42	56	49	29	65	112	38	34	42	23	16
25	19	42	56	43	28	113	81	38	35	44	21	16
26	18	47	53	42	28	180	66	38	39	36	20	16
27	18	50	47	44	28	128	60	38	206	39	19	16
28	19	52	44	58	28	95	54	38	73	31	18	17
29	19	45	42	60	-----	89	50	38	51	28	18	18
30	17	43	47	46	-----	95	60	38	41	27	18	18
31	19	-----	62	42	-----	93	-----	36	-----	26	18	-----
TOTAL	727	2,978	1,956	1,388	1,170	3,006	2,254	1,300	2,357	1,008	733	520
MEAN	23.5	99.3	63.1	44.8	41.8	97.0	75.1	41.9	78.6	32.5	23.6	17.3
MAX	38	499	215	102	87	250	268	56	461	60	48	22
MIN	17	42	36	31	28	28	50	36	34	26	18	16
CFSM	.66	2.80	1.78	1.26	1.18	2.73	2.12	1.18	2.21	.92	.66	.49
IN.	.76	3.12	2.05	1.45	1.23	3.15	2.36	1.36	2.47	1.06	.77	.54

CAL YR 1972 TOTAL 14,926 MEAN 40.8 MAX 499 MIN 12 CFSM 1.15 IN 15.64
WTR YR 1973 TOTAL 19,397 MEAN 53.1 MAX 499 MIN 16 CFSM 1.50 IN 20.33

PEAK DISCHARGE (BASE, 400 CFS)

Note.—No gage-height record Feb. 8 to Apr. 13.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1215	9.07	678	06-05	2345	9.77	775
11-14	0400	9.68	762	06-27	0430	6.99	434
04-22	1545	8.07	553				

03348000 White River at Anderson, Ind.

LOCATION (revised).--Lat 40°06'20", long 85°40'16", in NW 1/4 NW 1/4 sec.18, T.19 N., R.8 E., Madison County, on downstream side of Twelfth Street bridge, 250 ft (76 m) upstream from municipal water-supply plant in Anderson, 1 mile (2 km) upstream from Killbuck Creek.

DRAINAGE AREA.--406 sq mi (1,052 sq km).

PERIOD OF RECORD.--July 1925 to September 1926, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 950 ft (290 m) downstream December 1910 to February 1918, 250 ft (76 m) downstream from February 1918 to Sept. 14, 1973, and at present site since Sept. 15, 1973, are contained in reports of U.S. Weather Bureau. Prior to October 1948, published as West Fork White River at Anderson.

GAGE.--Nonrecording gage and concrete dam. Gage read twice daily. Datum of gage is 825.02 ft (251.466 m) above mean sea level. May 12, 1934, to Sept. 14, 1973, nonrecording gage at site 250 ft (76 m) downstream at same datum.

AVERAGE DISCHARGE.--43 years, 373 cfs (10.563 cu m/s), 12.48 in/yr (317 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,300 cfs (122 cu m/s) June 6, gage height, 11.40 ft (3.475 m); minimum daily, 90 cfs (2.55 cu m/s) Sept. 27.

Period of record: Maximum discharge, 18,700 cfs (530 cu m/s) Apr. 21, 1964, gage height, 19.41 ft (5.916 m); maximum gage height, 19.96 ft (6.084 m) June 14, 1958; minimum daily discharge, 9.1 cfs (0.26 cu m/s) Sept. 24, 1940.

Maximum stage known, 23.6 ft (7.19 m) Mar. 25, 1913, at site 250 ft (76 m) downstream and at present datum, based on determination of U.S. Weather Bureau at site then in use, discharge, 28,000 cfs (793 cu m/s).

REMARKS.--Records poor. The city of Anderson diverts water for its municipal supply above the gage.

COOPERATION.--Gage readings furnished by city of Anderson.

REVISIONS (WATER YEARS).--WSP 1335: 1932, 1934-35, 1936(M), 1938-40. WSP 1385: 1950(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,080	273	526	1,100	512	215	1,100	555	220	508	135	124
2	555	2,200	508	1,200	1,090	220	1,290	551	198	395	155	124
3	465	3,290	470	900	1,240	234	1,160	480	188	358	163	124
4	405	2,020	439	660	1,000	258	897	429	207	302	153	124
5	700	1,200	559	1,350	761	345	946	382	1,660	342	153	120
6	590	906	1,680	1,300	635	540	796	345	3,140	309	158	112
7	463	770	2,020	900	530	480	778	345	3,320	240	148	117
8	299	1,800	1,360	560	465	480	669	412	1,830	212	140	114
9	246	1,890	1,040	453	409	597	624	453	1,130	200	145	112
10	220	1,260	950	365	365	844	624	416	906	207	155	110
11	212	959	809	340	342	2,160	627	436	700	185	171	112
12	289	752	858	317	312	2,800	631	345	520	185	299	117
13	350	818	1,570	302	312	1,880	673	305	650	185	240	135
14	280	3,110	1,590	287	345	1,300	665	280	560	182	405	240
15	240	3,980	1,100	273	480	1,660	555	276	470	190	563	180
16	210	2,460	720	260	593	1,330	508	255	402	243	402	140
17	181	1,350	600	250	522	1,590	631	249	470	198	273	126
18	171	1,060	600	269	512	2,020	796	249	450	196	209	116
19	171	880	620	290	395	1,710	752	249	430	188	166	98
20	155	1,410	770	302	345	1,420	809	280	370	190	292	98
21	155	1,090	862	270	312	1,150	853	264	300	302	950	98
22	161	850	840	578	296	946	946	249	250	315	402	108
23	180	719	756	1,110	264	800	2,380	249	226	270	215	120
24	155	650	880	996	249	677	1,930	232	212	243	200	128
25	155	586	814	858	249	715	1,310	226	102	460	188	114
26	145	631	765	470	246	1,900	986	246	207	696	153	100
27	145	692	681	456	243	2,300	761	249	209	395	148	90
28	158	707	673	597	215	1,500	635	249	1,570	355	140	112
29	150	696	646	880	-----	1,180	519	250	1,240	246	137	108
30	153	612	502	722	-----	1,240	516	243	692	209	135	96
31	163	-----	616	533	-----	1,090	-----	223	-----	180	132	-----
TOTAL	9,002	39,621	26,824	19,148	13,239	35,581	26,367	9,972	22,829	8,686	7,325	3,617
MEAN	290	1,321	865	618	473	1,148	879	322	761	280	236	121
MAX	1,080	3,980	2,020	1,350	1,240	2,800	2,380	555	3,320	696	950	240
MIN	145	273	439	250	215	215	508	223	102	180	132	90
CFSM	.71	3.25	2.13	1.52	1.17	2.83	2.17	.79	1.87	.69	.58	.30
IN.	.82	3.63	2.46	1.75	1.21	3.26	2.42	.91	2.09	.80	.67	.33

CAL YR 1972 TOTAL 189,979 MEAN 519 MAX 3,980 MIN 78 CFSM 1.28 IN 17.41
WTR YR 1973 TOTAL 222,211 MEAN 609 MAX 3,980 MIN 90 CFSM 1.50 IN 20.36

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0500	10.79	3,600	04-23	1400	9.83	2,720
11-15	0500	11.29	4,160	06-06	2200	11.40	4,300
03-12	1700	10.10	2,940				

03348020 Killbuck Creek near Gaston, Ind.

LOCATION.--Lat 40°15'45", long 85°30'53", in SE 1/4 SW 1/4 sec.16, T.21 N., R.9 E., Delaware County, on right bank 30 ft (9 m) upstream from bridge on County Road 500 North, and 15 ft (5 m) east of County Road 675 West, 3.6 miles (5.8 km) southwest of Gaston.

DRAINAGE AREA.--25.5 sq mi (66.0 sq km).

PERIOD OF RECORD.--June 1968 to current year.

AVERAGE DISCHARGE.--5 years, 25.3 cfs (0.716 cu m/s), 13.47 in/yr (342 mm/yr).

GAGE.--Water-stage recorder. Datum of gage 873.00 ft (266.090 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 334 cfs (9.46 cu m/s) June 6, gage height, 10.93 ft (3.331 m); minimum daily, 5.1 cfs (0.14 cu m/s) Sept. 22, 24-26.

Period of record: Maximum discharge, 378 cfs (10.7 cu m/s) Jan. 18, 1969; maximum gage height, 11.14 ft (3.395 m) Apr. 20, 1972; minimum daily discharge, 2.5 cfs (0.071 cu m/s) Oct. 3, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	25	34	45	32	17	96	31	15	14	11	7.3
2	40	248	31	34	90	17	68	29	14	13	10	7.0
3	28	291	29	32	78	19	55	27	14	12	9.8	6.7
4	27	172	29	83	53	24	49	25	19	12	9.2	6.5
5	38	74	34	54	43	31	46	23	183	12	8.7	6.5
6	27	57	193	36	37	31	40	22	313	11	8.4	6.4
7	20	54	130	26	32	31	37	21	270	10	8.1	6.4
8	15	115	90	24	30	35	34	24	96	9.8	7.9	6.3
9	9.7	76	50	22	27	37	32	27	60	9.5	7.9	6.3
10	8.5	57	40	21	25	87	32	25	47	9.3	8.0	6.3
11	9.2	49	30	20	23	148	30	27	38	9.2	8.0	6.1
12	29	43	60	18	22	109	31	23	34	8.8	11	5.8
13	26	70	162	17	21	61	35	21	33	8.5	11	5.5
14	20	292	91	17	21	70	31	20	27	8.4	83	6.6
15	14	295	55	17	28	106	28	23	25	8.2	112	7.3
16	12	125	43	16	28	63	28	21	24	8.0	47	6.0
17	12	74	34	16	24	128	41	20	31	7.8	27	5.7
18	9.3	54	31	17	23	118	71	19	26	7.8	20	5.6
19	8.9	51	30	18	22	117	83	24	22	7.6	16	5.5
20	9.0	61	52	17	22	84	66	35	28	8.1	17	5.4
21	9.5	57	48	16	21	63	50	25	18	17	19	5.3
22	11	48	45	30	21	53	91	22	16	18	14	5.1
23	12	43	40	57	20	46	160	21	15	12	12	5.2
24	12	39	41	36	19	41	85	19	14	15	13	5.1
25	11	38	43	29	18	68	56	18	13	23	14	5.1
26	9.6	40	41	28	18	217	45	18	13	58	12	5.1
27	9.5	45	35	30	18	213	39	17	30	35	10	5.2
28	9.7	45	31	36	18	89	33	18	32	21	9.2	5.2
29	10	38	30	48	-----	76	30	16	21	15	8.5	5.3
30	7.5	36	44	32	-----	101	30	16	16	13	8.1	5.5
31	4.5	-----	65	27	-----	84	-----	15	-----	12	7.8	-----
TOTAL	535.9	2.717	1.711	919	834	2.384	1.552	692	1.499	434.0	568.6	177.3
MEAN	17.3	90.8	55.2	29.6	29.8	76.9	51.7	22.3	50.0	14.0	18.3	5.91
MAX	62	295	193	83	90	217	160	35	313	58	112	7.3
MIN	7.5	25	29	16	18	17	28	15	13	7.6	7.8	5.1
CFSM	.68	3.55	2.16	1.16	1.17	3.02	2.03	.87	1.96	.55	.72	.23
IN.	.78	3.96	2.50	1.34	1.22	3.48	2.26	1.01	2.19	.63	.83	.26

CAL YR 1972 TOTAL 12.808.0 MEAN 35.0 MAX 323 MIN 5.9 CFSM 1.37 IN 18.68
WTR YR 1973 TOTAL 14.023.8 MEAN 38.4 MAX 313 MIN 5.1 CFSM 1.51 IN 20.46

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	1200	10.46	297	03-26	1800	9.91	253
11-15	0300	10.69	315	06-06	1800	10.93	334

03348350 Pipe Creek at Frankton, Ind.

LOCATION.--Lat 40°13'38", long 85°45'58", in SE 1/4 NE 1/4 sec.31, T.21 N., R.7 E., Madison County, on right bank 20 ft (6 m) downstream from bridge on County Road 500 West, at northeast edge of Frankton.

DRAINAGE AREA.--113 sq mi (293 sq km).

PERIOD OF RECORD.--May 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 810.00 ft (246.888 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 107 cfs (3.03 cu m/s), 12.98 in/yr (330 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,750 cfs (49.6 cu m/s) Nov. 15, gage height, 10.53 ft (3.210 m) from peak-stage indicator; minimum daily, 17 cfs (0.48 cu m/s) Sept. 26-28.

Period of record: Maximum discharge, 1,980 cfs (56.1 cu m/s) Apr. 21, 1972, gage height, 11.10 ft (3.383 m); minimum daily, 4.2 cfs (0.119 cu m/s) Oct. 6, 7, 1970.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	103	122	404	142	43	580	101	36	79	115	27
2	240	400	106	209	442	45	452	95	34	60	80	25
3	143	1,200	95	166	484	51	288	91	32	51	63	25
4	140	900	95	476	278	65	240	80	83	48	51	24
5	200	580	107	364	202	83	232	70	683	52	42	24
6	158	350	563	185	164	90	189	66	778	41	37	24
7	113	265	625	131	136	85	161	65	620	35	32	24
8	76	570	282	103	124	80	144	73	340	32	29	24
9	52	470	186	90	101	101	128	76	203	30	34	24
10	40	295	150	81	85	320	128	83	146	29	32	24
11	100	210	117	75	73	588	117	85	111	27	28	23
12	158	190	230	69	66	715	126	73	113	25	123	21
13	130	450	956	64	63	334	145	66	229	23	59	20
14	103	1,370	680	59	66	364	124	61	119	27	856	25
15	81	1,500	338	56	85	753	109	60	84	34	1,360	30
16	60	650	218	50	80	408	117	58	70	33	528	25
17	58	400	175	52	71	554	314	55	161	30	240	23
18	45	315	142	58	66	635	271	52	124	29	155	22
19	32	248	118	91	59	638	316	68	81	28	109	22
20	34	257	217	79	59	540	292	87	64	43	84	21
21	36	249	203	67	57	388	223	68	54	324	65	20
22	38	220	189	251	53	298	438	59	47	256	53	20
23	41	190	155	380	54	232	835	57	42	139	45	19
24	38	163	155	192	49	193	444	52	39	217	56	19
25	33	154	178	133	46	284	254	50	36	209	62	18
26	32	163	171	120	46	1,050	180	49	41	550	48	17
27	34	178	142	128	44	1,100	142	47	212	398	41	17
28	37	173	122	169	43	568	115	50	244	172	35	17
29	33	146	113	233	-----	376	96	50	208	114	32	19
30	31	131	236	154	-----	366	95	45	119	100	29	22
31	65	-----	540	117	-----	338	-----	41	-----	217	27	-----
TOTAL	2,776	12,490	7,726	4,806	3,238	11,685	7,295	2,033	5,153	3,452	4,550	665
MEAN	89.5	416	249	155	116	377	243	65.6	172	111	147	22.2
MAX	395	1,500	956	476	484	1,100	835	101	778	550	1,360	30
MIN	31	103	95	50	43	43	95	41	32	23	27	17
CFSM	.79	3.68	2.20	1.37	1.03	3.34	2.15	.58	1.52	.98	1.30	.20
IN.	.91	4.11	2.54	1.58	1.07	3.85	2.40	.67	1.70	1.14	1.50	.22

CAL YR 1972 TOTAL 55,278 MEAN 151 MAX 1,800 MIN 31 CFSM 1.34 IN 18.20
WTR YR 1973 TOTAL 65,869 MEAN 180 MAX 1,500 MIN 17 CFSM 1.59 IN 21.68

PEAK DISCHARGE (BASE, 700 CFS)

NOTE.--No gage-height record
Oct. 1 to Nov. 27.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	unknown	unknown	al,450	03-12	0100	8.33	956	04-23	0400	8.44	994
11-15	unknown	10.53	1,750	03-15	0700	8.05	865	06-05	2100	8.14	892
12-06	2300	8.09	877	03-17	1800	7.51	712	08-15	0200	10.15	1,600
12-13	1500	8.88	1,150	03-27	0200	9.44	1,340				

a About

03348500 White River near Noblesville, Ind.

LOCATION.—Lat 40°07'46", long 85°57'46", in NE 1/4 NE 1/4 sec.4, T.19 N., R.5 E., Hamilton County, near center of span on downstream side of highway bridge, 1 mile (2 km) west of Strawtown, 7 miles (11 km) northeast of Noblesville, 9.5 miles (15.3 km) upstream from Cicero Creek, and at mile 277.4 (446.3 km).

DRAINAGE AREA.—828 sq mi (2,145 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: May 1915 to September 1926, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "West Branch of White River" prior to October 1922 and as "West Fork of White River" October 1922 to September 1948. Records of daily discharge for the water year 1928, published in WSP 663, have been found to be unreliable and should not be used.

WATER TEMPERATURE: October 1953 to July 1957, October 1962 to current year.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 763.08 ft (232.587 m) above mean sea level (levels by Corps of Engineers). Prior to July 1, 1922, nonrecording gage at bridge 2 miles (3 km) downstream at different datum. July 1, 1922, to Nov. 21, 1933, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.—56 years, 789 cfs (22.34 cu m/s), 12.94 in/yr (329 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,110	374	1,060	2,290	1,030	451	3,330	1,020	424	938	500	260
2	1,340	3,090	968	1,590	2,090	451	2,970	992	415	740	379	242
3	944	6,210	878	1,280	2,870	475	2,270	962	388	620	330	233
4	734	5,390	836	2,250	2,210	535	1,890	848	460	560	287	224
5	824	2,800	866	2,760	1,610	638	1,900	764	2,270	590	266	221
6	926	1,780	2,370	1,690	1,340	848	1,820	698	5,000	540	251	218
7	764	1,450	4,480	1,210	1,160	896	1,520	674	6,740	460	257	209
8	620	2,350	2,980	992	980	890	1,350	758	5,450	415	233	203
9	510	3,280	1,810	872	810	986	1,250	842	2,140	374	242	203
10	433	2,170	1,500	690	710	2,170	1,230	800	1,470	358	278	212
11	451	1,590	1,290	640	670	4,120	1,190	866	1,200	358	245	209
12	722	1,300	1,310	610	650	5,320	1,210	722	1,090	322	1,470	209
13	764	1,300	3,380	590	626	4,270	1,260	632	1,320	310	950	200
14	638	5,020	4,070	575	644	2,640	1,250	580	1,070	302	3,030	573
15	525	8,500	2,470	560	806	3,570	1,110	566	854	290	4,800	596
16	456	6,890	1,610	555	950	2,810	1,060	540	752	294	3,060	302
17	438	3,270	1,160	550	836	3,250	1,460	525	1,020	302	1,590	254
18	394	2,240	1,140	550	716	4,510	1,730	505	998	281	1,110	239
19	366	1,800	1,210	644	670	4,020	1,960	535	794	260	812	227
20	338	1,880	1,380	644	650	3,410	1,920	644	668	275	626	215
21	318	2,050	1,560	584	632	2,630	1,750	608	572	632	962	209
22	314	1,680	1,500	1,200	596	2,030	2,140	560	510	824	872	203
23	338	1,410	1,400	2,110	578	1,660	4,930	555	446	590	550	215
24	366	1,240	1,330	1,800	540	1,420	4,520	520	428	545	485	206
25	346	1,150	1,380	1,220	500	1,700	2,800	510	406	878	490	203
26	326	1,150	1,360	1,010	475	4,340	1,870	490	474	1,240	402	197
27	314	1,240	1,240	992	470	6,170	1,460	495	1,650	1,290	342	188
28	326	1,290	1,090	1,110	460	4,180	1,250	515	3,120	836	322	182
29	322	1,260	986	1,530	-----	2,680	1,080	515	2,210	560	290	185
30	310	1,130	1,240	1,400	-----	2,620	1,000	495	1,300	433	281	182
31	318	-----	2,280	1,090	-----	2,470	-----	465	-----	656	272	-----
TOTAL	17,895	76,284	52,134	35,588	26,279	78,160	56,480	20,201	45,639	17,073	25,984	7,219
MEAN	577	2,543	1,682	1,148	939	2,521	1,883	652	1,521	551	838	241
MAX	2,110	8,500	4,480	2,760	2,870	6,170	4,930	1,020	6,740	1,290	4,800	596
MIN	310	374	836	550	460	451	1,000	465	388	260	233	182
CFSM	.70	3.07	2.03	1.39	1.13	3.04	2.27	.79	1.84	.67	1.01	.29
IN.	.80	3.43	2.34	1.60	1.18	3.51	2.54	.91	2.05	.77	1.17	.32

CAL YR 1972 TOTAL 380,559 MEAN 1,040 MAX 8,500 MIN 126 CFSM 1.26 IN 17.10
WTR YR 1973 TOTAL 458,936 MEAN 1,257 MAX 8,500 MIN 182 CFSM 1.52 IN 20.62

PEAK DISCHARGE (BASE, 5,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	2230	11.93	6,830	04-23	2000	11.04	5,550
11-15	1700	13.02	8,980	06-08	0100	12.37	7,640
03-27	1400	11.70	6,440				

03348500 White River near Noblesville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 8,980 cfs (254 cu m/s) Nov. 15, gage height, 13.02 ft (3.968 m); minimum daily, 182 cfs (5.15 cu m/s) Sept. 28, 30.

Period of record: Maximum discharge, 27,200 cfs (770 cu m/s) Mar. 21, 1937, gage height, 16.3 ft (4.97 m); maximum gage height, 16.35 ft (4.983 m) June 14, 1958, Apr. 22, 1964; minimum daily discharge, 39 cfs (1.10 cu m/s) Sept. 25, 1941.

WATER TEMPERATURE, Current year: Maximum temperature, 27.0°C Aug. 8, 9; minimum, freezing point on Jan. 14, 15.

Period of record: Maximum temperature, 31.0°C July 14, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1915-16, 1918, 1920, 1921(M), 1922, 1927-28(M), 1929-30, 1933(M), 1936, 1941(M). WSP 1725: 1959(M). WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.5	10.0	10.0	4.5	4.0	5.5	4.5	3.5	2.0	6.0	4.5
2	16.0	15.5	12.0	10.5	5.0	4.5	4.5	3.5	4.0	3.5	7.5	6.0
3	16.5	15.5	12.0	12.0	5.0	4.5	3.5	3.0	4.0	4.0	8.5	7.5
4	17.0	16.5	12.0	11.0	4.5	4.5	3.5	3.0	4.0	3.5	9.5	8.5
5	17.0	17.0	11.0	10.5	4.5	4.5	3.5	2.5	4.0	3.5	10.5	9.5
6	17.5	17.0	10.5	10.0	4.5	4.5	2.5	2.0	4.0	4.0	11.0	10.0
7	17.5	17.0	10.5	10.5	4.5	3.0	2.0	1.5	4.0	4.0	12.5	11.0
8	17.5	16.5	---	---	3.0	3.0	1.5	1.0	4.0	3.0	12.5	12.0
9	16.5	15.5	---	---	3.5	3.0	1.0	1.0	3.0	2.0	12.0	10.5
10	16.0	14.5	---	---	3.5	3.5	1.0	0.5	2.0	.5	10.5	10.0
11	15.0	14.5	---	---	3.5	2.0	0.5	0.5	1.5	1.0	11.5	10.0
12	16.0	15.0	---	---	2.5	2.0	0.5	0.5	1.5	1.0	11.5	11.0
13	16.0	16.0	---	---	3.0	2.5	0.5	0.5	1.5	1.5	11.0	10.5
14	16.0	15.0	---	---	3.0	3.0	0.5	0.5	3.0	1.5	11.5	10.5
15	15.0	14.0	---	---	3.0	2.5	0.5	0.0	3.5	3.0	12.5	11.0
16	14.5	14.0	---	---	3.0	1.5	2.0	0.0	3.5	2.0	12.5	11.0
17	14.0	13.5	---	---	1.5	1.0	3.5	2.0	2.0	1.0	11.0	6.5
18	13.5	11.0	---	---	1.0	1.0	5.5	3.5	1.0	1.0	6.5	5.0
19	11.0	9.5	---	---	1.5	0.5	5.5	5.5	2.5	1.0	5.5	5.5
20	10.0	8.5	---	---	3.5	1.5	5.5	4.5	3.5	2.5	5.5	5.5
21	9.0	9.0	---	---	3.5	3.5	4.5	3.5	4.0	3.5	5.5	5.5
22	11.0	9.0	---	---	4.0	3.5	3.5	3.5	4.0	3.0	6.0	5.5
23	12.0	11.0	---	---	4.0	4.0	3.5	3.5	3.5	3.0	6.5	6.0
24	12.0	11.0	---	---	4.0	4.0	3.5	2.0	4.0	3.0	8.0	6.5
25	11.0	10.0	---	---	4.0	4.0	3.0	2.0	5.0	4.0	8.0	8.0
26	10.0	9.0	---	---	4.0	4.0	3.5	3.0	5.0	4.5	8.0	7.5
27	9.5	9.0	---	---	4.0	3.0	4.0	3.5	4.5	4.0	7.5	7.0
28	10.5	9.5	---	---	3.5	3.0	4.0	4.0	4.5	4.0	7.5	7.5
29	11.0	10.5	---	---	3.5	3.0	4.0	3.0	---	---	8.0	7.5
30	11.0	10.5	---	---	5.5	3.5	3.0	2.0	---	---	8.5	8.0
31	10.5	10.0	---	---	5.5	5.5	2.0	2.0	---	---	8.5	8.5
MONTH	17.5	8.5	---	---	5.5	0.5	5.5	0.0	5.0	1.0	12.5	4.5

03348500 White River near Noblesville, Ind.--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.5	15.5	14.0	19.5	17.0	22.0	20.5	23.0	22.0	26.0	25.0
2	8.5	8.0	16.0	15.5	21.0	19.0	23.5	20.5	23.0	21.5	26.0	25.0
3	8.0	7.5	16.0	14.0	23.0	21.0	24.0	23.0	22.5	21.0	26.5	25.5
4	7.5	7.0	14.0	12.5	23.0	21.5	24.0	23.0	23.5	21.5	26.5	25.0
5	7.0	7.0	14.5	12.5	21.5	19.5	23.5	22.0	24.5	23.0	26.0	24.5
6	8.0	6.5	14.5	14.0	19.5	19.5	24.0	22.0	25.0	24.0	24.5	24.0
7	8.5	8.0	14.5	14.0	21.0	19.5	25.0	23.0	25.5	24.5	24.0	23.0
8	9.5	8.5	16.5	14.0	21.0	20.5	25.5	23.5	27.0	25.0	23.0	21.5
9	10.0	9.0	18.5	16.0	22.0	21.0	26.5	24.5	27.0	25.5	21.5	20.5
10	9.0	7.0	19.0	18.0	23.5	22.0	26.5	25.0	25.5	24.5	21.0	19.5
11	7.0	6.0	19.0	18.0	24.0	23.0	26.0	23.5	26.5	25.5	21.0	20.5
12	6.5	6.5	18.5	17.0	24.0	23.5	24.5	22.5	26.0	24.0	20.5	18.5
13	8.0	6.5	17.0	15.5	23.5	21.5	25.0	23.0	25.0	24.0	20.5	19.5
14	9.0	7.5	15.5	14.0	22.5	21.5	25.5	24.0	25.0	22.5	20.0	18.5
15	10.0	9.0	14.0	13.0	22.5	21.5	25.0	24.0	22.5	22.0	20.0	19.0
16	11.0	10.0	13.5	13.0	23.0	21.0	25.0	23.5	23.0	22.0	20.0	19.0
17	11.0	10.0	13.5	12.5	22.5	21.5	24.5	23.0	23.5	22.5	20.0	19.0
18	11.0	10.5	13.5	12.5	23.0	21.0	24.5	22.5	23.5	23.0	19.0	18.0
19	12.0	11.0	14.5	13.5	23.5	22.5	24.5	23.5	23.5	23.5	18.0	16.5
20	13.5	12.0	16.0	14.5	23.5	23.0	24.5	24.0	24.5	23.5	18.5	18.0
21	14.0	13.5	17.0	15.5	24.0	22.5	24.5	22.5	24.0	22.0	19.0	18.5
22	14.0	14.0	17.5	17.0	23.5	21.5	22.5	22.0	23.5	21.5	20.5	19.0
23	14.0	13.5	18.5	17.0	23.0	22.0	22.5	21.5	21.5	21.0	21.5	20.0
24	14.0	13.5	18.5	18.5	23.5	21.5	23.0	22.5	21.5	21.0	22.0	21.0
25	14.0	13.5	18.5	17.5	24.0	22.0	23.5	22.0	23.0	21.0	23.0	22.0
26	13.5	12.0	19.0	17.5	24.0	21.0	23.5	23.5	24.5	22.0	24.0	23.0
27	13.0	12.0	19.0	19.0	21.0	20.0	23.5	23.0	25.5	24.0	24.0	23.0
28	12.0	11.0	19.0	18.5	20.0	20.0	23.5	23.0	26.0	25.0	24.5	23.5
29	13.0	11.5	18.5	17.5	20.0	19.5	23.5	22.0	26.0	25.0	24.5	24.0
30	14.0	13.0	18.0	17.0	21.0	19.5	23.5	22.0	26.0	25.5	24.5	23.5
31	---	---	18.0	16.0	---	---	23.0	22.5	25.5	24.5	---	---
MONTH	14.0	6.0	19.0	12.5	24.0	17.0	26.5	20.5	27.0	21.0	26.5	16.5
YEAR	27.0	0.0										

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
DEC.					
04...	1130	4.5	797	41	88
JAN.					
31...	1130	2.0	1120	10	30
MAR.					
02...	1000	6.0	453	6	7.3
APR.					
03...	1045	7.5	2330	56	352
26...	1030	12.0	1900	71	364
JUNE					
01...	1000	12.0	434	72	84
AUG.					
08...	1000	25.0	245	49	32

03349000 White River at Noblesville, Ind.

LOCATION.--Lat 40°02'50", long 86°01'00", in SE 1/4 SE 1/4 sec.36, T.19 N., R.4 E., Hamilton County, on right bank at downstream side of Logan Street bridge in Noblesville, 1.5 miles (2.4 km) upstream from Cicero Creek, 3.5 miles (5.6 km) downstream from dam at Clare, and at mile 269.0 (432.8 km).

DRAINAGE AREA.--858 sq mi (2,222 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: October 1946 to current year. Gage-height records collected at present site from December 1913 to December 1935, and after June 1951, and at site 400 ft (122 m) downstream January 1936 to May 1951, are contained in reports of U.S. Weather Bureau. Prior to October 1948, published as West Fork White River at Noblesville.

WATER TEMPERATURE: November 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 738.16 ft (224.991 m) above mean sea level.

AVERAGE DISCHARGE.--27 years, 814 cfs (23.05 cu m/s), 12.89 in/yr (327 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,490	378	1,140	2,730	1,090	500	3,590	1,070	445	1,050	552	270
2	1,570	2,880	1,040	1,850	2,180	505	3,450	1,050	430	800	400	258
3	1,060	6,640	940	1,320	3,290	505	2,590	1,010	410	667	342	243
4	814	6,630	898	2,400	2,630	564	2,140	898	465	600	302	234
5	842	3,450	926	3,050	1,880	654	2,080	800	2,070	636	267	231
6	961	2,130	2,170	1,980	1,530	877	2,060	730	5,070	594	249	228
7	814	1,670	4,670	1,370	1,290	968	1,740	702	6,550	505	240	219
8	654	2,330	3,420	1,090	1,160	940	1,510	765	6,150	440	225	213
9	552	3,550	2,070	933	985	1,030	1,370	877	2,570	395	237	219
10	475	2,450	1,670	695	880	2,130	1,360	821	1,670	374	290	216
11	440	1,800	1,400	670	810	4,440	1,310	877	1,290	374	249	219
12	674	1,430	1,380	645	770	5,720	1,320	751	1,150	342	1,580	213
13	758	1,390	3,510	630	758	4,980	1,370	648	1,370	318	1,120	209
14	648	5,470	4,590	610	772	2,990	1,370	600	1,160	298	3,010	495
15	540	8,380	2,840	600	919	3,960	1,220	594	905	282	6,230	636
16	470	7,990	1,860	887	1,040	3,290	1,140	570	800	286	4,220	354
17	445	4,050	1,160	582	926	3,520	1,580	552	1,000	338	2,030	278
18	410	2,590	1,190	594	779	4,990	1,910	530	1,090	298	1,280	258
19	374	2,030	1,230	681	740	4,610	2,160	558	856	261	919	246
20	350	2,030	1,470	702	710	3,930	2,180	648	702	267	695	237
21	330	2,250	1,720	642	681	3,020	2,000	618	612	588	891	228
22	326	1,900	1,650	1,290	648	2,330	2,390	576	546	856	996	225
23	350	1,580	1,550	2,330	630	1,920	5,160	540	490	648	618	237
24	350	1,360	1,430	2,110	600	1,640	5,160	535	465	535	515	222
25	330	1,230	1,500	1,390	552	1,790	3,210	520	410	856	515	213
26	314	1,230	1,490	1,100	525	4,580	2,210	505	500	1,160	440	210
27	302	1,330	1,350	1,050	520	6,700	1,670	505	1,940	1,420	378	208
28	314	1,400	1,200	1,160	510	5,100	1,370	525	2,880	891	342	208
29	318	1,370	1,060	1,640	-----	3,110	1,160	520	2,700	600	318	209
30	302	1,220	1,260	1,610	-----	2,900	1,060	510	1,540	445	302	209
31	310	-----	2,560	1,210	-----	2,770	-----	490	-----	600	294	-----
TOTAL	18,887	84,138	56,344	39,551	29,805	86,963	62,840	20,885	48,236	17,724	30,046	7,645
MEAN	609	2,805	1,818	1,276	1,064	2,805	2,095	674	1,608	572	969	255
MAX	2,490	8,380	4,670	3,050	3,290	6,700	5,160	1,070	6,550	1,420	6,230	636
MIN	302	378	898	582	510	500	1,060	480	410	261	225	208
CFSM	.71	3.27	2.12	1.49	1.24	3.27	2.44	.79	1.87	.67	1.13	.30
IN.	.82	3.65	2.44	1.71	1.29	3.77	2.72	.91	2.09	.77	1.30	.33

CAL YR 1972 TOTAL 408,322 MEAN 1.116 MAX 8.710 MIN 156 CFSM 1.30 IN 17.70
WTR YR 1973 TOTAL 503,064 MEAN 1.378 MAX 8.380 MIN 208 CFSM 1.61 IN 21.81

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-04	0230	13.00	7,350	06-08	0400	12.88	7,210
11-15	2315	14.18	8,850	08-15	0530	12.28	6,520
03-27	1230	12.67	6,950				

03349000 White River at Noblesville, Ind.—Continued

EXTREMES.—WATER DISCHARGE, Current year: Maximum discharge, 8,850 cfs (251 cu m/s) Nov. 15, gage height, 14.18 ft (4.322 m); minimum daily, 208 cfs (5.89 cu m/s) Sept. 27, 28.
 Period of record: Maximum discharge, 26,800 cfs (759 cu m/s) Apr. 22, 1964, gage height, 21.31 ft (6.495 m); minimum daily, 44 cfs (1.25 cu m/s) Sept. 28, 1954.

WATER TEMPERATURE, Current year: Maximum temperature, 29.0°C July 9, 10. Sept. 4, 5; minimum, freezing point on several days in December and January.

Period of record: Maximum temperature, 34.0°C Aug. 1, 1953; minimum, freezing point on many days during most winter periods.

REMARKS.—Records good. Flow slightly regulated by powerplant above station.

REVISIONS (WATER YEARS).—WSP 1335: 1949. WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	18.0	12.0	10.5	5.5	4.5	7.0	5.5	3.5	2.0	6.5	4.0
2	18.0	17.0	13.0	11.5	6.0	4.5	5.5	4.0	4.5	3.5	8.0	6.0
3	19.0	18.0	13.0	12.0	6.0	5.0	4.0	3.5	4.5	4.0	7.5	7.0
4	19.5	19.0	12.0	10.5	5.5	4.5	4.0	3.5	4.0	3.5	8.5	7.5
5	19.5	18.5	10.5	10.0	5.5	4.0	3.5	2.5	4.5	3.5	9.0	8.5
6	19.0	18.0	10.5	9.5	5.5	4.0	2.5	2.0	5.0	4.5	10.0	8.5
7	19.0	17.5	11.0	10.5	4.0	2.0	2.0	0.5	5.0	5.0	11.0	10.0
8	17.5	16.5	11.0	10.0	2.0	1.5	1.0	0.0	5.0	4.0	11.0	10.5
9	17.0	16.0	10.5	9.5	3.0	2.0	1.0	0.0	4.5	1.5	11.0	9.0
10	16.0	15.0	9.5	8.5	3.0	2.5	1.0	0.0	1.5	1.0	9.0	8.5
11	16.5	15.0	9.5	9.0	2.5	1.5	1.0	0.0	1.5	0.5	10.5	9.0
12	17.0	15.5	9.5	9.0	2.5	1.0	1.5	0.0	3.0	0.5	10.5	10.0
13	16.5	16.0	9.0	8.5	3.0	2.5	1.5	0.0	3.0	1.5	10.0	9.0
14	16.0	15.5	9.0	7.0	2.5	2.0	0.0	0.0	4.5	3.0	10.0	9.0
15	15.5	14.5	7.0	5.5	2.5	2.0	1.5	0.0	4.5	4.0	11.0	10.0
16	14.5	13.5	5.5	5.0	2.5	0.5	1.5	0.5	4.5	2.5	11.0	10.0
17	14.5	12.5	5.5	5.0	0.5	0.0	2.5	0.5	3.0	1.0	10.0	5.5
18	14.0	11.0	5.5	5.5	0.5	0.0	5.0	2.5	2.0	1.0	5.5	3.5
19	11.5	9.5	6.0	5.5	0.5	0.0	5.5	5.0	3.0	1.0	4.5	3.5
20	11.0	8.5	6.0	5.5	3.5	0.5	5.5	4.5	4.0	3.0	5.0	4.5
21	11.0	9.0	6.0	6.0	4.0	3.5	4.5	3.5	4.0	3.0	5.5	4.5
22	10.5	9.0	6.0	6.0	4.0	4.0	3.5	3.5	3.5	2.5	6.5	5.0
23	12.5	10.5	6.0	5.0	4.0	4.0	3.5	3.0	3.0	2.0	7.0	6.0
24	12.5	11.5	5.5	4.5	4.0	4.0	3.0	2.0	3.0	2.0	8.5	6.5
25	12.0	11.0	5.0	4.5	4.0	4.0	2.5	2.0	4.0	3.0	8.5	8.5
26	11.5	9.5	5.0	4.5	4.5	4.0	3.5	2.5	4.0	3.5	8.5	8.0
27	11.5	9.5	5.0	4.0	4.5	3.0	5.0	3.5	4.0	3.0	8.0	7.0
28	12.0	10.5	5.0	4.0	3.5	2.5	5.0	4.0	5.5	3.0	8.0	7.5
29	12.5	10.5	4.5	4.0	5.0	3.0	4.0	3.0	---	---	8.0	8.0
30	12.0	9.5	5.0	4.0	7.0	5.0	3.0	2.0	---	---	9.0	8.0
31	12.0	10.5	---	---	7.0	7.0	2.5	1.5	---	---	9.0	9.0
MONTH	19.5	8.5	13.0	4.0	7.0	0.0	7.0	0.0	5.5	0.5	11.0	3.5

03349000 White River at Noblesville, Ind.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	0.0	13.5	12.5	19.0	15.5	23.5	22.0	23.5	22.5	27.5	26.0
2	9.0	8.5	14.5	13.5	20.0	17.0	25.5	23.0	23.0	22.0	28.0	26.0
3	8.5	8.0	14.0	12.5	21.0	19.0	26.0	24.0	22.5	21.0	28.0	27.0
4	8.0	7.5	13.0	11.5	22.0	20.0	26.0	23.5	23.5	21.0	29.0	27.0
5	7.5	7.0	12.0	11.0	21.0	19.0	24.0	23.0	24.0	21.5	29.0	27.5
6	8.5	6.5	12.5	12.0	20.0	18.5	25.0	23.0	25.0	22.0	28.0	25.5
7	8.5	8.5	13.0	12.0	19.0	17.5	25.5	24.0	26.5	23.5	26.0	23.0
8	10.0	8.5	15.5	13.0	20.0	19.0	26.5	24.5	27.5	25.5	23.0	21.0
9	10.5	9.5	17.5	15.0	21.5	19.5	29.0	25.0	27.5	26.0	21.0	19.5
10	9.5	7.5	19.0	17.5	22.5	21.0	29.0	27.0	27.0	24.0	22.0	18.5
11	7.5	5.5	19.0	17.5	25.0	22.0	28.5	25.0	26.0	23.5	22.0	20.5
12	7.5	6.5	18.0	16.5	25.0	24.0	25.5	23.5	25.0	23.0	21.5	21.0
13	8.0	6.0	16.5	15.0	24.0	23.0	27.0	23.5	24.5	22.0	21.5	20.0
14	8.5	7.5	15.0	13.0	23.5	22.0	27.0	26.0	24.5	21.0	21.5	19.5
15	10.0	8.5	13.0	12.0	23.0	22.0	26.0	25.0	21.0	20.5	19.5	18.0
16	10.5	10.0	13.0	12.0	23.0	22.0	27.0	23.5	21.0	21.0	19.0	18.0
17	10.5	10.0	12.5	11.5	23.0	23.0	27.0	23.5	22.0	21.0	19.0	17.5
18	11.0	10.0	12.5	11.5	24.5	22.5	25.5	23.0	23.0	22.0	18.5	16.5
19	12.0	11.0	14.0	12.5	26.0	23.5	27.5	23.0	23.5	23.0	17.0	15.5
20	14.0	12.0	15.0	13.5	25.5	24.0	27.5	25.5	26.0	23.5	18.5	16.0
21	14.0	14.0	16.5	14.5	25.0	24.0	27.0	23.0	25.5	23.0	19.0	17.5
22	14.0	14.0	16.5	16.0	24.5	23.5	23.5	22.0	23.5	22.0	19.5	18.5
23	14.0	13.5	17.5	16.5	25.0	23.0	22.5	21.5	22.0	20.5	20.0	19.0
24	14.0	14.0	19.5	17.0	25.0	23.0	25.0	22.5	21.5	20.5	23.5	19.5
25	14.0	13.5	19.5	17.0	27.5	23.5	25.0	23.0	22.0	21.0	24.5	23.5
26	13.5	12.0	18.0	16.5	27.0	23.0	24.5	23.5	25.0	22.0	25.5	24.0
27	12.0	10.5	17.5	16.5	23.0	21.5	24.5	23.0	27.5	24.0	25.5	24.5
28	10.5	9.5	17.0	16.0	21.5	21.0	24.5	23.5	28.5	25.5	25.5	25.0
29	11.0	10.0	18.0	16.0	21.0	20.0	23.5	22.5	28.5	26.0	26.0	25.5
30	12.5	11.0	17.5	16.0	22.0	21.0	24.0	21.5	28.5	26.0	25.5	23.5
31	---	---	18.0	14.5	---	---	24.0	21.5	27.5	25.5	---	---
MONTH	14.0	0.0	19.5	11.0	27.5	15.5	29.0	21.5	28.5	20.5	29.0	15.5

03349500 Cicero Creek near Arcadia, Ind.

LOCATION.--Lat 40°10'34", long 85°59'43", in NW 1/4 NW 1/4 sec.20, T.20 N., R.5 E., Hamilton County, on left bank at downstream side of bridge, 1.5 miles (2.4 km) east of Arcadia, and 10 miles (16 km) upstream from Morse Dam.

DRAINAGE AREA.--131 sq mi (339 sq km).

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.12 ft (248.449 m) above mean sea level. Prior to Dec. 7, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--1st years, 117 cfs (3.313 cu m/s), 12.13 in/yr (308 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,730 cfs (49.0 cu m/s) Aug. 15, gage height, 9.11 ft (2.777 m); minimum daily, 6.8 cfs (0.19 cu m/s) Sept. 8, 9, 12, 13.

Period of record: Maximum discharge, 6,720 cfs (190 cu m/s) June 29, 1957, gage height, 11.86 ft (3.615 m); minimum daily, 0.5 cfs (0.014 cu m/s) Oct. 10, 1956.

Maximum stage known, 15.6 ft (4.75 m) (probably the flood in January 1937), from information by local residents.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	530	138	136	601	146	34	511	76	48	44	14	14
2	348	1,240	117	330	624	35	371	71	42	38	11	10
3	249	1,450	105	243	658	42	262	69	39	34	11	8.4
4	218	818	100	554	397	54	223	58	103	36	9.7	8.1
5	282	522	102	365	285	81	204	51	682	36	8.4	7.9
6	228	374	504	214	220	189	169	48	696	29	7.9	7.6
7	182	311	414	149	172	165	145	47	407	26	7.9	7.4
8	148	400	242	118	153	147	126	64	234	25	7.6	6.8
9	112	310	175	107	117	144	111	67	163	23	17	6.8
10	84	252	138	96	104	337	111	75	124	22	25	7.6
11	134	216	104	90	84	851	94	79	100	20	14	7.6
12	400	182	222	80	75	785	100	57	92	17	468	6.8
13	272	273	900	66	69	402	97	48	94	15	246	6.8
14	198	1,530	541	60	65	425	88	44	70	13	812	59
15	148	1,290	308	55	76	739	81	43	62	12	1,580	76
16	127	713	195	46	62	418	98	41	63	11	774	25
17	113	479	161	47	58	714	279	39	284	10	403	14
18	86	349	130	51	56	759	213	36	259	9.7	246	13
19	65	279	113	72	51	689	215	51	151	9.1	172	13
20	50	291	212	67	49	524	247	53	109	12	123	16
21	49	292	214	65	46	361	232	41	84	32	81	15
22	59	245	212	354	42	270	631	38	69	32	53	17
23	154	198	163	444	47	213	967	37	59	21	38	20
24	206	166	158	227	41	177	512	35	50	25	38	18
25	156	153	193	152	37	321	309	36	45	40	36	19
26	131	158	175	138	36	1,150	210	33	70	36	26	19
27	113	157	144	142	34	982	157	34	156	32	20	16
28	104	166	124	191	35	518	116	35	114	27	16	14
29	95	152	111	253	-----	364	92	51	79	19	13	19
30	86	143	297	174	-----	330	85	78	55	14	12	19
31	83	-----	823	132	-----	328	-----	62	-----	19	17	-----
TOTAL	5,210	13,247	7,533	5,683	3,839	12,548	7,056	1,597	4,603	738.8	5,307.5	497.8
MEAN	168	442	243	183	137	405	235	51.5	153	23.8	171	16.6
MAX	530	1,530	900	601	658	1,150	967	79	696	44	1,580	76
MIN	49	138	100	46	34	34	81	33	39	9.1	7.6	6.8
CFSM	1.28	3.37	1.86	1.40	1.05	3.09	1.79	.39	1.17	.18	1.31	.13
IN.	1.48	3.76	2.14	1.61	1.09	3.56	2.00	.45	1.31	.21	1.51	.14

CAL YR 1972 TOTAL 58,188.3 MEAN 159 MAX 1,610 MIN 3.8 CFSM 1.21 IN 16.52
WTR YR 1973 TOTAL 67,860.1 MEAN 186 MAX 1,580 MIN 6.8 CFSM 1.42 IN 19.27

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	2300	8.83	1,580	03-26	2000	8.09	1,300
11-14	1500	8.91	1,620	04-23	0200	7.66	1,150
03-11	2000	7.59	1,130	08-15	0600	9.11	1,730

03349700 Little Cicero Creek near Arcadia, Ind.

LOCATION.--Lat 40°10'32", long 86°02'45", in NE 1/4 NW 1/4 sec.23, T.20 N., R.4 E., Hamilton County, on left bank on downstream side of county road bridge, 0.5 mile (0.8 km) downstream from Taylor Creek, 1.3 miles (2.1 km) west of Arcadia, 3.9 miles (6.3 km) upstream from mouth, and 9.3 miles (15.0 km) northwest of Noblesville.

DRAINAGE AREA.--40.4 sq mi (104.6 sq km).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 833.36 ft (254.008 m).

AVERAGE DISCHARGE.--18 years, 38.2 cfs (1.082 cu m/s), 12.84 in/yr (326 mm/yr).

EXTREMES.--Current year: Maximum discharge, 666 cfs (18.9 cu m/s) Nov. 14, gage height, 5.63 ft (1.716 m), from graph based on gage readings; minimum daily, 0.80 cfs (0.023 cu m/s) Sept. 4-8, 12, 13.

Period of record: Maximum discharge, 3,980 cfs (113 cu m/s) June 28, 1957, gage height, 8.69 ft (2.649 m); no flow at times during 1957, 1963, 1964, 1966-68.

REMARKS.--Records fair.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	150	36	212	57	15	230	24	12	22	2.8	2.4
2	20	459	37	103	291	16	149	23	11	17	2.6	2.0
3	8.0	344	41	78	243	19	99	21	11	14	2.0	1.6
4	17	187	45	225	130	23	84	19	104	13	1.8	.80
5	37	117	50	124	96	34	71	18	240	13	1.6	.80
6	30	85	200	67	73	47	58	17	285	10	2.0	.80
7	20	73	130	43	55	47	49	16	138	8.6	2.4	.80
8	14	98	85	33	48	43	42	19	76	7.6	2.2	.80
9	9.0	70	60	29	38	58	39	19	48	6.8	2.0	1.0
10	6.0	60	46	26	32	112	40	18	35	6.4	11	2.0
11	20	45	36	23	27	379	37	16	28	5.4	3.4	1.4
12	58	40	76	21	23	258	41	15	24	4.4	150	.80
13	45	150	240	20	21	129	39	13	20	4.0	72	.80
14	35	560	150	19	22	162	35	13	17	3.6	220	74
15	25	220	100	18	26	183	32	12	16	3.0	411	39
16	20	200	70	16	23	103	46	12	17	2.6	175	13
17	21	130	50	17	21	278	115	12	141	2.5	93	6.4
18	13	90	43	20	20	250	84	11	77	2.2	52	4.2
19	10	60	38	29	19	220	99	13	41	2.0	33	3.4
20	15	70	54	25	19	153	121	16	29	2.8	22	2.8
21	25	84	64	34	18	100	110	53	22	9.2	13	2.6
22	35	70	72	223	17	74	306	12	19	5.4	8.6	2.2
23	65	60	52	174	17	57	304	12	16	3.6	6.4	1.2
24	60	50	58	75	16	48	154	12	14	6.4	7.2	2.2
25	50	40	64	50	15	166	94	11	12	27	7.0	2.8
26	45	41	55	45	15	520	64	11	38	29	4.4	3.4
27	40	43	43	46	15	321	47	10	189	15	3.4	2.4
28	35	46	37	67	15	169	36	11	83	7.2	3.0	2.0
29	30	40	35	76	-----	130	29	15	42	4.4	2.6	7.6
30	27	35	102	49	-----	129	27	20	29	3.6	2.6	7.0
31	40	-----	333	37	-----	154	-----	14	-----	3.6	3.2	-----
TOTAL	908.0	3,717	2,502	2,024	1,412	4,397	2,681	508	1,834	265.3	1,323.2	192.20
MEAN	29.3	124	80.7	65.3	50.4	142	89.4	16.4	61.1	8.56	42.7	6.41
MAX	65	560	333	225	291	520	306	53	285	29	411	74
MIN	6.0	35	35	16	15	15	27	10	11	2.0	1.6	.80
CFSM	.73	3.07	2.00	1.62	1.25	3.51	2.21	.41	1.51	.21	1.06	.16
IN.	.84	3.42	2.30	1.86	1.30	4.05	2.47	.47	1.69	.24	1.22	.18

CAL YR 1972 TOTAL 16,290.20 MEAN 44.5 MAX 1,000 MIN .80 CFSM 1.10 IN 15.00
WTR YR 1973 TOTAL 21,763.70 MEAN 59.6 MAX 560 MIN .80 CFSM 1.48 IN 20.04

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1700	5.17	574	03-26	1300	5.18	576
11-14	1200	5.63	666	08-14	2400	5.15	570

a about

b from graph based on gage readings

03350100 Hinkle Creek near Cicero, Ind.

LOCATION.—Lat 40°06'05", long 86°05'10", in NW 1/4 NW 1/4 sec.16, T.19 N., R.4 E., Hamilton County, on left bank on downstream side of county road bridge, 3.7 miles (6.0 km) above mouth, 4.0 miles (6.4 km) upstream from Morse Reservoir Dam, 4.2 miles (6.8 km) southwest of Cicero, and 5.7 miles (9.2 km) northwest of Noblesville.

DRAINAGE AREA.—18.5 sq mi (47.9 sq km).

PERIOD OF RECORD.—October 1955 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 820 ft (250 m) from topographic map.

AVERAGE DISCHARGE.—18 years, 18.9 cfs (0.535 cu m/s), 13.87 in/yr (352 mm/yr).

EXTREMES.—Current year: Maximum discharge, 810 cfs (22.9 cu m/s) June 27, gage height, 4.30 ft (1.311 m); minimum daily, 1.3 cfs (0.037 cu m/s) Aug. 8.
Period of record: Maximum discharge, 4,920 cfs (139 cu m/s) June 28, 1957, gage height, 8.45 ft (2.576 m); minimum daily, 0.07 cfs (0.002 cu m/s) Sept. 8, 1967.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	38	22	58	30	8.1	98	12	5.2	13	2.2	2.7
2	9.0	224	21	33	114	8.6	69	12	4.8	11	2.0	2.5
3	6.1	89	20	40	79	11	49	12	5.2	9.1	1.7	2.2
4	8.5	56	21	91	47	13	42	11	40	9.5	1.6	2.5
5	16	38	22	41	34	18	35	9.5	152	8.6	1.4	2.2
6	11	30	94	25	28	18	30	9.1	183	6.6	1.4	2.2
7	9.5	30	51	20	23	22	27	9.5	67	5.5	1.4	1.9
8	8.1	36	32	17	21	21	25	12	33	5.2	1.3	1.9
9	6.3	28	25	14	18	31	23	11	23	4.8	5.5	2.4
10	5.1	26	22	13	15	50	24	9.5	17	4.4	3.7	2.4
11	12	22	20	12	12	239	24	8.6	12	3.7	2.0	2.0
12	26	20	59	12	11	95	26	8.1	11	3.0	157	2.0
13	17	98	133	11	11	55	24	7.6	9.5	2.8	31	1.7
14	14	312	50	10	12	70	22	6.6	8.1	2.7	193	42
15	12	97	30	9.1	15	69	20	6.6	7.6	2.5	114	12
16	11	92	22	8.1	13	43	29	6.6	8.1	2.4	44	5.5
17	12	46	20	8.6	12	136	44	6.2	53	2.0	25	4.4
18	9.4	34	19	9.8	11	103	49	5.9	24	2.0	17	4.1
19	9.4	30	25	17	10	87	66	8.6	14	1.9	11	3.4
20	10	36	33	13	9.5	64	72	7.1	11	6.6	8.6	3.0
21	12	37	26	29	9.2	43	61	5.9	9.1	11	5.9	2.8
22	16	30	25	104	9.0	34	191	5.9	7.6	5.5	5.2	3.0
23	30	26	20	62	9.2	28	110	5.9	6.6	3.7	4.4	3.0
24	27	23	22	29	8.0	24	59	5.9	5.5	16	5.5	2.7
25	22	22	26	22	8.1	112	35	6.2	5.2	11	4.8	4.1
26	20	24	23	21	8.3	298	25	5.5	66	6.6	4.1	4.8
27	19	24	19	21	7.7	116	20	7.6	315	5.2	3.4	3.4
28	20	27	17	27	7.6	69	16	6.6	62	3.0	2.8	3.0
29	19	24	17	28	-----	61	13	5.9	31	2.5	2.7	5.2
30	17	23	55	20	-----	59	13	5.9	19	2.5	3.0	5.5
31	19	-----	124	17	-----	81	-----	5.5	-----	2.7	3.4	-----
TOTAL	448.4	1,642	1,115	842.6	592.6	2,086.7	1,341	246.3	1,215.5	177.0	670.0	140.5
MEAN	14.5	54.7	36.0	27.2	21.2	67.3	44.7	7.95	40.5	5.71	21.6	4.68
MAX	30	312	133	104	114	298	191	12	315	16	193	42
MIN	5.1	20	17	8.1	7.6	8.1	13	5.5	4.8	1.9	1.3	1.7
CFSM	.78	2.96	1.95	1.47	1.15	3.64	2.42	.43	2.19	.31	1.17	.25
IN,	.90	3.30	2.24	1.69	1.19	4.20	2.70	.50	2.44	.36	1.35	.28

CAL YR 1972 TOTAL 8,213.49 MEAN 22.4 MAX 558 MIN .49 CFSM 1.21 IN 16.52
WTR YR 1973 TOTAL 10,517.60 MEAN 28.8 MAX 315 MIN 1.3 CFSM 1.56 IN 21.15

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0800	3.20	409	06-27	0300	4.30	810
11-14	0200	3.97	682	08-12	0500	3.16	406
03-11	1000	3.26	431	08-14	1800	3.38	477
03-26	1000	3.38	477				

WABASH RIVER BASIN

03350300 Morse Reservoir near Noblesville, Ind.

LOCATION.--Lat 40°04'21", long 86°02'47", in SE 1/4 SW 1/4 sec.23, T.19 N., R.4 E., Hamilton County, in intake structure of reservoir on Cicero Creek, 2.5 miles (4.0 km) northwest of courthouse in Noblesville, and 4.7 miles (7.6 km) above mouth.

DRAINAGE AREA.--214 sq mi (554 sq km).

PERIOD OF RECORD.--December 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 760.00 ft (231.648 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 22,940 acre-ft (28.3 cu hm) Aug. 15, elevation, 811.28 ft (247.278 m); minimum, 21,120 acre-ft (26.0 cu hm) Aug. 9, elevation, 809.95 ft (246.872 m).

Period of record: Maximum contents, 25,310 acre-ft (31.2 cu hm) June 28, 1957, elevation, 812.95 ft (247.787 m); minimum, 14,120 acre-ft (17.4 cu hm) Jan. 5, 1964, elevation, 804.26 ft (245.138 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by two 36-inch (914 mm) valves or one 16-inch (406 mm) valve. Minimum design capacity is essentially empty at invert of outlet conduit at elevation of 763.50 ft (232.715 m). Capacity at uncontrolled spillway elevation, 810 ft (246.9 m) is 21,180 acre-ft (26.1 cu hm). Reservoir is used for low-flow augmentation and recreation. Reservoir put in operation on Dec. 9, 1955, and was filled for the first time on Feb. 3, 1957.

COOPERATION.--Record furnished by Indianapolis Water Company.

Month-end elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	810.71	22,150	-
Oct. 31.....	810.18	21,420	-730
Nov. 30.....	810.27	21,550	+130
Dec. 31.....	810.60	22,000	+450
Calendar year 1972.....	-	-	-70
Jan. 31.....	810.25	21,520	-480
Feb. 28.....	810.10	21,310	-210
Mar. 31.....	810.62	22,030	+720
Apr. 30.....	810.21	21,460	-370
May 31.....	810.15	21,380	-80
June 30.....	810.13	21,350	-30
July 31.....	810.03	21,220	-130
Aug. 31.....	810.05	21,240	+20
Sept. 30.....	810.02	21,210	-30
Water year 1973.....			-940

03350500 Cicero Creek at Noblesville, Ind.

LOCATION.—Lat 40°03'20", long 86°02'30", in NW 1/4 NE 1/4 sec.35, T.19 N., R.4 E., Hamilton County, on right bank 150 ft (46 m) downstream from bridge on State Highway 38, 1 mile (2 km) northwest of Noblesville, 1.5 miles (2.4 km) downstream from Hinkle Creek, and 2.5 miles (4.0 km) upstream from mouth.

DRAINAGE AREA.—216 sq mi (559 sq km).

PERIOD OF RECORD.—July 1950 to current year.

GAGE.—Water-stage recorder. Datum of gage is 750.00 ft (228.600 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—23 years, 187 cfs (5.296 cu m/s), 11.76 in/yr (299 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,650 cfs (75.0 cu m/s) Aug. 15, gage height, 11.79 ft (3.594 m); minimum daily, 3.4 cfs (0.096 cu m/s) Aug. 7.

Period of record: Maximum discharge, 9,800 cfs (278 cu m/s) June 28, 1957, gage height, 15.26 ft (4.651 m); minimum daily, 0.6 cfs (0.017 cu m/s) Sept. 25, 1954.

REMARKS.—Records good. Flow regulated by Morse Reservoir (See sta 03350300).

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	741	152	224	1,120	262	69	885	158	81	119	30	31
2	485	1,230	200	668	773	75	780	163	67	82	14	30
3	337	2,100	193	526	1,160	87	544	158	58	76	10	22
4	264	1,430	189	808	794	110	453	141	82	77	11	9.5
5	312	878	172	779	560	138	394	103	850	67	11	8.8
6	310	602	575	461	435	231	330	103	1,240	56	3.7	15
7	240	490	794	308	339	277	297	103	975	48	3.4	4.9
8	183	521	505	235	308	262	271	136	549	45	3.5	6.1
9	147	485	355	187	224	268	220	150	355	34	12	11
10	108	399	275	152	196	485	251	138	255	43	29	5.7
11	121	341	209	137	163	1,300	202	145	193	36	27	7.4
12	360	286	306	122	147	1,390	220	127	166	7.5	546	6.2
13	365	357	1,250	111	141	794	216	97	155	8.0	508	3.7
14	282	2,140	1,070	105	149	675	193	84	118	15	1,150	137
15	196	2,130	632	103	176	1,030	182	73	92	23	2,500	183
16	152	1,270	409	95	147	780	194	75	104	10	1,520	114
17	147	825	264	94	101	1,060	427	63	328	5.8	762	58
18	119	590	227	105	112	1,270	490	56	480	6.2	453	41
19	94	490	224	143	114	1,230	485	101	313	5.8	304	23
20	69	451	328	152	110	898	550	121	201	21	224	22
21	64	466	370	149	110	664	524	76	145	69	139	18
22	75	425	365	539	88	490	906	67	110	55	88	18
23	123	341	315	836	94	394	1,640	70	90	39	67	25
24	220	286	284	531	85	328	1,100	60	79	59	76	14
25	200	262	321	341	79	479	668	58	86	67	69	18
26	169	264	323	277	82	1,850	464	64	169	68	58	22
27	150	268	279	262	72	1,800	365	63	804	58	43	19
28	139	271	235	332	67	1,020	242	66	451	46	36	17
29	128	257	218	388	-----	724	193	64	248	29	30	32
30	106	238	399	337	-----	647	183	85	158	17	28	34
31	103	-----	1,160	271	-----	605	-----	103	-----	26	34	-----
TOTAL	6,509	20,245	12,670	10,674	7,088	21,430	13,869	3,071	9,002	1,318.3	8,789.6	956.3
MEAN	210	675	409	344	253	691	462	99.1	300	42.5	284	31.9
MAX	741	2,140	1,250	1,120	1,160	1,850	1,640	163	1,240	119	2,500	183
MIN	64	152	172	94	67	69	182	56	58	5.8	3.4	3.7

CAL YR 1972 TOTAL 95,571.2 MEAN 261 MAX 2,850 MIN 1.8
WTR YR 1973 TOTAL 115,622.2 MEAN 317 MAX 2,500 MIN 3.4

03350700 Stony Creek near Noblesville, Ind.

LOCATION.--Lat 40°01'44", long 85°59'42", in NE 1/4 NE 1/4 sec.7, T.18 N., R.5 E., Hamilton County, on left bank at downstream side of county road bridge, 1.4 miles (2.3 km) upstream from mouth, and 1.4 miles (2.3 km) southeast of Noblesville.

DRAINAGE AREA.--50.8 sq mi (131.6 sq km).

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 749.00 ft (228.295 m) above mean sea level (State Highway Commission bench mark).

AVERAGE DISCHARGE.--6 years, 45.4 cfs (1.286 cu m/s), 12.14 in/yr (308 mm/yr).

EXTREMES.--Current year: Maximum discharge, 730 cfs (20.7 cu m/s) Aug. 14, gage height, 5.50 ft (1.676 m); minimum daily, 7.5 cfs (0.21 cu m/s) Sept. 13.

Period of record: Maximum discharge, 1,010 cfs (28.6 cu m/s) Feb. 2, 1968, gage height, 6.64 ft (2.024 m); maximum gage height, 6.91 ft (2.106 m) Jan. 18, 1969 (backwater from ice); minimum daily discharge, 3.8 cfs (0.11 cu m/s) Sept. 1, 1967.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	44	60	126	68	25	256	44	19	31	9.9	11
2	19	552	53	85	159	27	192	41	19	25	9.6	9.6
3	14	348	49	81	146	30	146	39	19	22	9.3	9.1
4	12	212	48	181	111	35	133	34	24	22	9.6	8.8
5	11	163	56	126	89	41	124	32	181	21	9.6	8.6
6	11	133	181	81	74	42	104	31	188	19	9.3	8.8
7	11	117	144	58	60	44	89	31	168	17	8.8	8.3
8	9.6	133	102	50	56	40	79	34	117	15	8.6	8.3
9	8.3	108	79	45	45	58	74	32	85	15	9.6	8.8
10	8.3	91	64	41	41	150	75	29	60	14	11	8.6
11	9.9	77	50	36	36	278	70	28	47	13	9.6	7.8
12	23	63	85	33	34	205	89	27	42	13	278	7.8
13	17	155	194	29	33	133	79	25	60	13	170	7.5
14	15	586	115	29	38	137	66	25	38	12	531	20
15	12	289	98	29	54	163	60	25	31	12	460	23
16	12	192	74	27	47	122	66	23	30	11	238	14
17	11	155	62	28	44	221	113	23	89	11	168	13
18	11	124	50	30	37	212	146	22	51	10	111	12
19	11	111	53	42	34	188	157	25	33	10	53	11
20	9.9	130	108	36	33	150	155	27	29	11	35	11
21	9.3	113	79	37	31	122	126	23	25	15	22	11
22	9.1	96	70	135	30	100	201	23	22	13	17	9.9
23	11	74	57	139	30	81	236	24	20	12	15	9.3
24	12	68	56	85	27	72	174	23	19	15	15	9.0
25	11	64	63	63	27	122	128	23	18	24	15	8.6
26	11	70	61	57	27	419	98	22	17	21	13	8.3
27	10	74	53	60	25	306	79	22	166	15	11	8.3
28	11	75	48	70	25	185	61	23	133	13	11	7.9
29	12	66	43	83	-----	159	50	23	72	12	9.9	7.8
30	12	61	66	63	-----	152	45	21	43	11	10	8.0
31	11	-----	172	53	-----	163	-----	20	-----	10	15	-----
TOTAL	391.4	4,549	2,493	2,038	1,461	4,182	3,471	844	1,865	478	2,302.8	305.1
MEAN	12.6	152	80.4	65.7	52.2	135	116	27.2	62.2	15.4	74.3	10.2
MAX	36	586	194	181	159	419	256	44	188	31	531	23
MIN	8.3	44	43	27	25	25	45	20	17	10	8.6	7.5
CFSM	.25	2.99	1.58	1.29	1.03	2.66	2.28	.54	1.22	.30	1.46	.20
IN.	.29	3.33	1.83	1.49	1.07	3.06	2.54	.62	1.37	.35	1.69	.22

CAL YR 1972 TOTAL 18,909.9 MEAN 51.7 MAX 665 MIN 6.0 CFSM 1.02 IN 13.85
WTR YR 1973 TOTAL 24,380.3 MEAN 66.8 MAX 586 MIN 7.5 CFSM 1.32 IN 17.85

PEAK DISCHARGE (BASE 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1400	5.34	679	03-26	1700	4.88	534
11-14	1000	5.33	676	08-12	1300	4.08	342
03-11	1600	4.11	348	08-14	2000	5.50	730

03351000 White River near Nora, Ind.

LOCATION.—Lat 39°54'35", long 86°06'20", in NW 1/4 NW 1/4 sec.20, T.17 N., R.4 E., Marion County, on downstream side of center pier of bridge on State Highway 100, 2 miles (3 km) east of Nora, 14 miles (23 km) upstream from Fall Creek, and at mile 253.4 (407.7 km).

DRAINAGE AREA.—1,219 sq mi (3,157 sq km).

PERIOD OF RECORD.—October 1929 to current year. Prior to April 1930, monthly discharge only, published in WSP 1305. Prior to October 1948, published as West Fork White River near Nora.

GAGE.—Water-stage recorder. Datum of gage is 710.94 ft (216.695 m) above mean sea level (levels by Corps of Engineers). Oct. 26, 1929, to July 29, 1942, at site 200 ft (61 m) downstream at same datum. Supplemental water-stage recorder 4.5 miles (7.2 km) downstream.

AVERAGE DISCHARGE.—44 years, 1,070 cfs (30.30 cu m/s), 11.92 in/yr (303 mm/yr).

EXTREMES.—Current year: Maximum discharge, 10,700 cfs (303 cu m/s) Nov. 16, gage height, 11.90 ft (3.627 m); minimum daily, 251 cfs (7.11 cu m/s) Sept. 13.

Period of record: Maximum discharge, 32,400 cfs (918 cu m/s) May 19, 1943; maximum gage height, 18.65 ft (5.685 m) Apr. 23, 1964; minimum daily discharge, 49 cfs (1.39 cu m/s) Sept. 17, 1941.

Flood of Mar. 26, 1913, reached a stage of 22.4 ft (6.83 m), from floodmark, determined by State Highway Department of Indiana, discharge, 58,500 cfs (1,660 cu m/s).

REMARKS.—Records good. Flow slightly regulated by Morse Reservoir (See sta 03350300).

REVISIONS (WATER YEARS).—WSP 1335: 1930-31, 1934(m), 1936, 1941, 1943, 1945, 1947-48. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,280	580	1,530	3,980	1,490	646	4,390	1,400	610	1,420	688	420
2	2,370	3,840	1,410	2,980	2,390	646	4,810	1,380	575	1,040	550	381
3	1,670	8,020	1,270	2,210	4,210	670	3,670	1,340	575	855	475	354
4	1,250	8,580	1,190	3,020	3,780	742	2,970	1,210	615	790	425	325
5	1,110	5,240	1,210	3,920	2,780	855	2,680	1,070	1,970	766	381	301
6	1,240	3,100	2,130	2,930	2,230	1,060	2,610	974	5,040	730	354	297
7	1,190	2,380	5,090	2,010	1,870	1,340	2,310	918	7,170	652	325	289
8	974	2,380	4,500	1,550	1,670	1,320	2,060	967	7,720	575	309	273
9	808	3,790	2,820	1,280	1,440	1,420	1,830	1,090	3,800	530	301	277
10	682	3,250	2,190	1,040	1,250	2,360	1,810	1,060	2,360	490	350	277
11	605	2,400	1,850	960	1,090	5,460	1,750	1,050	1,750	480	368	273
12	778	1,940	1,730	910	974	7,300	1,730	1,020	1,450	465	1,870	262
13	1,170	1,780	3,820	870	932	6,860	1,770	862	1,540	415	2,280	251
14	1,080	5,610	5,730	830	939	4,090	1,770	766	1,510	381	2,810	386
15	890	9,620	3,980	810	1,090	4,620	1,640	736	1,160	372	8,160	1,020
16	712	10,400	2,660	770	1,210	4,620	1,530	712	1,000	358	6,880	652
17	625	7,270	1,830	766	1,160	4,450	1,960	706	1,270	372	3,310	455
18	575	3,840	1,570	766	1,020	6,190	2,540	676	1,750	372	2,120	386
19	520	2,940	1,560	883	946	6,330	2,910	700	1,440	354	1,510	345
20	485	2,650	1,870	946	939	5,350	3,070	814	1,110	350	1,140	313
21	440	2,790	2,190	883	890	4,120	2,890	784	918	555	939	297
22	410	2,650	2,170	1,770	834	3,180	3,100	742	790	841	1,260	281
23	420	2,250	2,040	2,950	808	2,580	5,840	712	700	802	841	285
24	495	1,940	1,870	3,060	772	2,210	7,270	690	635	682	658	293
25	575	1,730	1,890	2,080	730	2,230	4,680	646	605	820	630	277
26	525	1,650	1,970	1,590	694	5,360	3,090	640	610	1,020	550	273
27	480	1,690	1,840	1,460	664	8,700	2,370	630	2,320	1,560	475	265
28	455	1,770	1,630	1,550	652	7,720	1,970	664	3,210	1,140	415	254
29	455	1,790	1,430	1,970	-----	4,510	1,650	652	3,330	802	372	269
30	435	1,650	1,510	2,140	-----	3,880	1,460	652	2,110	605	363	269
31	405	-----	3,120	1,710	-----	3,760	-----	646	-----	570	495	-----
TOTAL	27,109	109,520	71,600	54,594	39,454	114,579	84,130	26,909	59,643	21,164	41,604	10,300
MEAN	874	3,651	2,310	1,761	1,409	3,696	2,804	868	1,988	683	1,342	343
MAX	3,280	10,400	5,730	3,980	4,210	8,700	7,270	1,400	7,720	1,560	8,160	1,020
MIN	405	580	1,190	766	652	646	1,460	630	575	350	301	251
CFSM	.72	3.00	1.90	1.44	1.16	3.03	2.30	.71	1.63	.56	1.10	.28
IN.	.83	3.34	2.19	1.67	1.20	3.50	2.57	.82	1.82	.65	1.27	.31

CAL YR 1972 TOTAL 531,496 MEAN 1,452 MAX 12,200 MIN 163 CFSM 1.19 IN 16.22
WTR YR 1973 TOTAL 660,606 MEAN 1,810 MAX 10,400 MIN 251 CFSM 1.48 IN 20.16

PEAK DISCHARGE (BASE 7,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-04	0530	10.96	a9,190	04-24	0700	9.98	7,730
11-16	0800	11.90	a10,700	06-08	1430	10.17	8,000
03-12	2230	9.85	7,550	08-15	1830	10.60	8,650
03-27	2330	10.98	9,220				

a from graph based on partial-recorder record.

03351310 Crooked Creek at Indianapolis, Ind.

LOCATION.--Lat 39°49'47", long 86°12'22", in NW 1/4 SE 1/4 sec.16, T.16 N., R.3 E., Marion County, on left bank 150 ft (46 m) downstream from 42nd Street bridge in Indianapolis.

DRAINAGE AREA.--17.9 sq mi (46.4 sq km).

PERIOD OF RECORD.--June 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 711.00 ft (216.713 m) above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.--Current year: Maximum discharge, 1,610 cfs (45.6 cu m/s) Nov. 2, gage height, 6.37 ft (1.942 m); minimum daily, 1.4 cfs (0.040 cu m/s) Sept. 21, 22.

Period of record: Maximum discharge, 1,610 cfs (45.6 cu m/s) Nov. 2, 1972, gage height, 6.37 ft (1.942 m); minimum daily, 0.47 cfs (0.013 cu m/s) Dec. 2, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	102	15	32	28	7.5	83	11	5.4	4.5	6.8	3.5
2	5.9	653	12	20	74	7.9	47	12	5.4	4.0	6.5	3.3
3	4.5	81	11	41	44	9.2	34	11	6.9	4.0	5.9	2.9
4	14	41	12	77	30	10	35	9.2	59	20	5.6	2.7
5	16	29	12	28	23	14	30	8.2	218	14	5.3	2.9
6	8.2	22	50	15	19	11	23	8.2	81	7.5	5.3	2.7
7	7.5	31	25	10	17	15	20	9.7	34	6.2	5.3	2.7
8	5.3	34	21	8.0	14	12	21	19	19	5.6	5.3	3.5
9	4.0	23	20	6.5	11	56	21	12	14	4.7	12	5.0
10	3.3	21	17	5.5	10	54	25	13	11	4.7	7.5	3.1
11	11	18	14	5.0	9.0	265	20	11	8.7	4.2	5.3	3.3
12	8.7	15	43	4.7	8.2	70	20	7.9	9.2	3.7	99	5.0
13	6.2	138	108	4.4	8.7	37	17	7.0	8.2	3.5	33	5.6
14	5.3	446	37	4.2	18	65	15	6.5	6.8	3.5	72	38
15	4.5	64	25	4.2	25	51	15	6.4	6.5	4.0	35	5.0
16	3.5	38	18	4.3	15	36	23	6.1	7.5	3.3	17	2.3
17	3.3	29	13	4.7	11	164	27	6.0	41	2.9	14	1.7
18	3.3	22	10	5.9	9.5	77	23	5.8	13	2.9	12	1.6
19	2.9	32	21	17	9.7	56	39	32	8.7	2.7	7.5	1.6
20	2.2	41	41	8.7	10	38	58	15	7.5	14	6.2	1.6
21	3.1	28	25	21	9.2	28	41	8.3	6.8	72	5.3	1.4
22	4.2	21	22	88	8.2	21	126	7.3	6.2	14	4.7	1.4
23	13	18	19	64	8.7	18	81	6.8	5.6	9.6	4.4	1.7
24	8.2	16	18	27	7.9	16	43	5.3	5.6	10	5.3	1.6
25	5.6	17	19	17	7.9	104	29	6.2	5.3	100	4.7	1.7
26	4.7	23	18	14	6.5	248	21	6.8	6.5	31	4.2	1.7
27	4.5	24	16	14	8.2	74	17	10	36	21	4.0	1.6
28	4.7	20	14	19	7.2	39	15	9.5	14	14	4.0	1.6
29	4.5	17	14	19	-----	50	12	6.8	7.5	10	3.7	4.0
30	4.2	15	24	12	-----	65	12	6.3	5.6	7.8	4.2	2.7
31	5.0	-----	75	10	-----	112	-----	5.7	-----	7.2	4.2	-----
TOTAL	191.3	2,079	789	611.1	457.9	1,830.6	993	297.0	669.9	416.5	415.2	117.4
MEAN	6.17	69.3	25.5	19.7	16.4	59.1	33.1	9.58	22.3	13.4	13.4	3.91
MAX	16	653	108	88	74	265	126	32	218	100	99	38
MIN	2.2	15	10	4.2	6.5	7.5	12	5.7	5.3	2.7	3.7	1.4
CFSM	.34	3.87	1.42	1.10	.92	3.30	1.85	.54	1.25	.75	.75	.22
IN.	.40	4.32	1.64	1.27	.95	3.80	2.06	.62	1.39	.87	.86	.24

CAL YR 1972 TOTAL 7,697.4 MEAN 21.0 MAX 653 MIN 1.3 CFSM 1.17 IN 16.00
WTR YR 1973 TOTAL 8,867.9 MEAN 24.3 MAX 653 MIN 1.4 CFSM 1.36 IN 18.43

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0645	6.37	1,610	03-17	0645	3.97	212	06-05	0800	4.78	462
11-14	0145	5.99	1,190	03-26	0915	4.42	336	07-21	0215	4.10	230
12-13	0030	4.08	240	03-31	1500	4.03	228	07-25	1030	4.06	220
03-11	1200	4.67	418	04-22	1545	4.11	248	08-12	0600	4.05	218

03351400 Sugar Creek near Middletown, Ind.

LOCATION.--Lat 40°02'27", long 85°31'30", in NW 1/4 SE 1/4 sec.5, T.18 N., R.9 E., Henry County, on right bank 90 ft (27 m) upstream from bridge on County Road 750 North, 1 mile (2 km) southeast of Middletown.

DRAINAGE AREA.--5.80 sq mi (15.02 sq km).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft (289.560 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 5.62 cfs (0.159 cu m/s), 13.16 in/yr (334 mm/yr).

EXTREMES.--Current year: Maximum discharge, 250 cfs (7.08 cu m/s) Nov. 13, gage height, 5.55 ft (1.692 m); minimum daily, 0.10 cfs (0.003 cu m/s) Sept. 26-30.

Period of record: Maximum discharge, 278 cfs (7.87 cu m/s) Dec. 14, 1971, gage height, 5.75 ft (1.753 m); maximum gage height, 6.16 ft (1.878 m) Feb. 17, 1971 (backwater from ice); minimum daily discharge, 0.02 cfs (0.001 cu m/s) Aug. 30 to Sept. 2, 1972.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	14	4.2	4.2	14	2.1	24	2.7	4.4	1.4	.73	.20
2	.44	112	4.7	4.2	27	2.2	14	2.7	.74	1.2	.63	.18
3	.44	40	4.3	10	14	2.4	12	2.2	.73	3.5	.53	.18
4	.60	22	4.1	30	11	3.7	14	1.4	11	3.0	.44	.18
5	1.2	12	4.1	13	4.4	4.7	14	1.5	51	2.1	.40	.18
6	.90	7.3	74	7.3	4.7	5.0	11	1.5	50	1.4	.36	.18
7	.63	25	24	5.0	5.4	6.4	4.0	1.5	22	1.5	.33	.18
8	.53	36	17	4.1	4.7	6.4	4.8	4.3	9.4	1.3	.30	.18
9	.40	14	15	3.4	4.0	19	4.0	2.2	5.4	1.0	.73	.24
10	.24	12	11	2.9	3.6	40	7.0	1.4	3.5	1.2	.96	.24
11	.44	7.4	7.6	2.5	3.3	41	4.0	1.3	2.6	.95	.54	.20
12	2.4	6.0	21	2.2	3.0	33	4.5	1.2	24	.75	4.6	.14
13	1.3	53	45	1.4	2.7	20	4.6	1.2	10	.45	3.7	.18
14	1.0	122	22	1.4	6.6	41	4.0	1.1	4.3	.54	8.5	.40
15	.74	42	13	1.6	14	30	5.2	1.1	2.4	.65	12	.27
16	.64	22	4.4	1.5	7.4	31	4.4	1.1	2.7	.40	2.4	.20
17	.64	14	4.2	1.8	5.2	52	4.8	1.0	14	.55	1.2	.18
18	.53	9.2	5.2	2.0	4.3	42	7.3	.96	4.7	.45	.90	.18
19	.54	17	10	2.4	4.1	33	11	1.4	2.7	1.4	.73	.18
20	.40	14	14	1.6	3.7	24	14	1.1	1.4	6.0	.63	.16
21	.44	11	11	3.1	3.3	14	11	.40	1.4	3.3	.53	.16
22	1.2	5.5	11	2.6	2.7	11	44	.40	1.2	1.5	.44	.16
23	1.4	7.6	4.4	21	2.7	4.2	44	.45	1.0	4.0	.36	.16
24	1.3	5.7	11	4.4	2.4	7.0	26	.40	.90	15	.53	.16
25	1.3	6.0	12	4.2	2.2	32	17	1.0	.40	10	.44	.12
26	1.2	7.4	11	4.7	2.2	66	4.2	.46	11	4.7	.36	.10
27	1.2	4.2	7.4	4.2	2.1	30	7.0	1.1	33	11	.27	.10
28	1.4	11	4.0	20	2.0	14	4.7	1.1	11	2.4	.24	.10
29	1.3	7.4	5.4	12	-----	25	3.4	1.2	5.0	1.2	.24	.10
30	1.3	7.0	13	7.3	-----	20	3.3	1.0	2.7	.40	.24	.10
31	1.3	-----	14	5.2	-----	30	-----	.40	-----	.73	.24	-----
TOTAL	31.14	444.0	434.4	241.9	174.6	742.4	387.7	44.58	247.45	40.51	50.04	5.33
MEAN	1.01	22.4	14.1	7.40	4.41	24.0	12.4	1.44	4.43	2.42	1.62	.18
MAX	2.4	122	74	30	27	41	54	4.3	51	15	12	.40
MIN	.24	5.7	4.1	1.5	2.0	2.1	3.3	.40	.73	.45	.24	.10
CFSM	.17	3.45	2.43	1.34	1.11	4.14	2.22	.25	1.71	.40	.24	.03
IN.	.20	4.41	2.41	1.55	1.15	4.74	2.49	.24	1.41	.40	.32	.03

CAL YR 1972 TOTAL 2514.14 MEAN 4.44 MAX 122 MIN .02 CFSM 1.14 IN 16.14
WTR YR 1973 TOTAL 3147.44 MEAN 8.74 MAX 122 MIN .10 CFSM 1.51 IN 20.51

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0700	5.24	208	03-11	0645	4.55	123
11-13	2345	5.55	250	06-12	1100	4.57	125

03351500 Fall Creek near Fortville, Ind.

LOCATION.--Lat 39°57'15", long 85°52'05", in NW 1/4 NE 1/4 sec.5, T.17 N., R.6 E., Hamilton County, on right bank 100 ft (30 m) downstream from bridge on State Highway 238, 1 mile (2 km) downstream from Lick Creek, and 2 miles (3 km) northwest of Fortville.

DRAINAGE AREA.--169 sq mi (437 sq km).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 787.43 ft (240.009 m) above mean sea level (levels by Indianapolis Water Co.). Prior to June 27, 1942, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 162 cfs (4.588 cu m/s), 13.02 in/yr (331 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,060 cfs (58.3 cu m/s) Nov. 15, gage height, 6.93 ft (2.112 m); minimum daily, 34 cfs (0.96 cu m/s) Sept. 27-29.

Period of record: Maximum discharge, 8,750 cfs (248 cu m/s) Apr. 21, 1964, gage height, 9.88 ft (3.011 m); minimum daily, 5.0 cfs (0.14 cu m/s) Sept. 23, 24, 1941.

Maximum stage known, about 12 ft (3.7 m) March 1913 (information by local resident).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1435: 1949 (P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	87	185	300	217	110	747	211	102	110	63	45
2	95	951	167	236	471	113	555	201	95	99	59	43
3	73	1,280	156	231	477	118	438	193	92	92	56	41
4	61	593	149	519	351	126	390	177	131	95	53	40
5	73	357	149	413	284	135	364	165	919	100	51	40
6	68	267	567	275	242	140	322	160	998	89	48	39
7	60	238	663	219	211	144	295	158	709	81	46	38
8	54	474	388	191	201	165	278	187	396	75	43	38
9	48	372	339	169	177	179	260	185	278	73	46	40
10	43	280	300	158	162	540	264	163	217	70	59	41
11	46	238	247	140	149	823	249	153	183	67	53	41
12	67	203	251	130	144	923	256	144	171	63	181	39
13	71	280	765	130	140	469	262	138	322	61	193	37
14	63	1,600	580	131	145	407	240	133	195	59	205	84
15	56	1,610	377	131	221	639	223	131	156	57	275	74
16	49	691	280	126	225	438	225	127	144	54	171	51
17	48	443	230	127	173	783	284	124	231	52	117	45
18	46	336	200	133	167	819	273	120	251	51	92	42
19	45	298	203	142	151	754	293	135	173	49	80	41
20	41	367	324	135	147	614	357	147	147	60	74	41
21	40	315	300	129	140	452	327	124	129	97	66	40
22	41	267	273	245	133	359	457	118	115	92	60	39
23	43	231	251	399	131	305	903	118	107	74	56	40
24	43	205	242	273	122	271	625	113	100	84	63	40
25	42	195	256	213	118	329	435	111	95	185	64	38
26	41	207	253	195	118	955	344	108	92	163	56	37
27	40	221	231	199	115	1,050	291	111	193	162	53	34
28	43	231	211	229	110	593	251	120	258	140	49	34
29	43	213	191	291	-----	474	223	127	165	95	48	34
30	42	195	209	231	-----	567	211	122	129	77	47	36
31	42	-----	339	197	-----	558	-----	113	-----	68	49	-----
TOTAL	1,698	13,245	9,276	6,637	5,442	14,352	10,642	4,437	7,293	2,694	2,576	1,272
MEAN	54.8	442	299	214	194	463	355	143	243	86.9	83.1	42.4
MAX	131	1,610	765	519	477	1,050	903	211	998	185	275	84
MIN	40	87	149	126	110	110	211	108	92	49	43	34
CFSM	.32	2.62	1.77	1.27	1.15	2.74	2.10	.85	1.44	.51	.49	.25
IN.	.37	2.92	2.04	1.46	1.20	3.16	2.34	.98	1.61	.59	.57	.28

CAL YR 1972 TOTAL 70,148 MEAN 192 MAX 1,610 MIN 27 CFSM 1.14 IN 15.44
WTR YR 1973 TOTAL 79,564 MEAN 218 MAX 1,610 MIN 34 CFSM 1.29 IN 17.51

PEAK DISCHARGE (BASE, 1,300 CFS).--Nov. 3 (0900) 1,480 cfs (6.06 ft); Nov. 15 (0400) 2,060 cfs (6.93 ft).

03351700 Geist Reservoir near Oaklandon, Ind.

LOCATION.--Lat 39°54'26", long 85°59'07", in SW 1/4 NE 1/4 sec.20, T.17 N., R.5 E., Marion County, in intake structure of reservoir on Fall Creek, 2.6 miles (4.2 km) northwest of Oaklandon, 17 miles (27 km) above mouth.

DRAINAGE AREA.--215 sq mi (556 sq km).

PERIOD OF RECORD.--January 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 755.00 ft (230.124 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 23,580 acre-ft (29.1 cu hm) Nov. 15, elevation, 786.21 ft (239.637 m); minimum, 20,410 acre-ft (25.2 cu hm) Oct. 1, elevation, 784.57 ft (239.137 m).

Period of record: Maximum contents, 27,360 acre-ft (33.7 cu hm) May 18, 1943, elevation, 788.02 ft (240.188 m); minimum, 11,230 acre-ft (13.8 cu hm) Jan. 5, 1964, elevation, 778.42 ft (237.262 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by a 36-inch (914 mm) valve. Minimum design capacity is essentially empty at invert on outlet conduit at elevation of 756.75 ft (230.657 m). Capacity at uncontrolled spillway elevation, 785 ft (239.3 m) is 21,180 acre-ft (26.1 cu hm). Reservoir is used for low-flow augmentation and recreation. Reservoir filled for first time on Mar. 17, 1943.

COOPERATION.--Records furnished by Indianapolis Water Company.

Month-end elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	784.57	20,410	-
Oct. 31.....	785.11	21,380	+970
Nov. 30.....	785.35	21,840	+460
Dec. 31.....	785.51	22,150	+310
Calendar year 1972.....	-	-	-560
Jan. 31.....	785.35	21,840	-310
Feb. 28.....	785.23	21,610	-230
Mar. 31.....	785.64	22,410	+800
Apr. 30.....	785.35	21,840	-570
May 31.....	785.24	21,630	-210
June 30.....	785.24	21,630	0
July 31.....	785.20	21,560	-70
Aug. 31.....	785.16	21,480	-80
Sept. 30.....	784.78	20,780	-700
Water year 1973.....			+370

Diversion for municipal supply for city of Indianapolis

Water supply for the city of Indianapolis is from both White River and Fall Creek. Water from White River is diverted below White River near Nora (03351000) into Indianapolis Water Canal at Westfield Boulevard. Water from Fall Creek is diverted below Fall Creek at Millersville (03352500) at pumping station at Keystone Avenue. The return flow of the diversion is made below White River at Indianapolis (03353000). Major return flow is made at mouth of Eagle Creek and minor return flow is made at Southport Road.

Diversion, monthly and yearly means in cfs

1972												1973	
Oct.	Nov.	Dec.	Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
144	136	134	146	136	136	136	138	143	161	169	171	164	147

03352200 Mud Creek at Indianapolis, Ind.

LOCATION.--Lat 39°53'30", long 86°00'57", in SE 1/4 NE 1/4 sec.25, T.17 N., R.4 E., Marion County, on left bank at downstream side of Lantern Road bridge at Indianapolis, 0.2 mile (0.3 km) northeast of intersection of 75th Street and Sargent Road, 1.5 miles (2.4 km) upstream from mouth, and 2.0 miles (3.2 km) southeast of Castleton.

DRAINAGE AREA.--42.4 sq mi (109.8 sq km).

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 752.99 ft (229.511 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--15 years, 35.5 cfs (1.005 cu m/s), 11.37 in/yr (289 mm/yr).

EXTREMES.--Current year: Maximum discharge, 510 cfs (14.4 cu m/s) Aug. 14, gage height, 6.30 ft (1.920 m); minimum daily, 4.6 cfs (0.13 cu m/s) Sept. 28.

Period of record: Maximum discharge, 2,010 cfs (56.9 cu m/s) Apr. 21, 1964, gage height, 8.37 ft (2.551 m); minimum daily, 0.2 cfs (0.006 cu m/s) several days in September 1963, 1966.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	49	42	115	72	20	229	35	11	14	8.0	12
2	23	394	38	80	151	20	153	33	11	12	7.4	11
3	16	456	35	72	138	21	112	30	11	11	6.8	10
4	14	220	32	168	103	24	97	27	18	15	6.6	9.8
5	13	139	32	122	84	28	91	25	174	16	6.4	9.8
6	12	106	100	81	71	29	76	24	230	11	6.1	8.6
7	11	89	112	59	58	31	67	24	193	9.5	5.9	8.0
8	9.9	109	73	48	52	29	61	27	108	8.6	5.5	8.0
9	9.1	89	59	40	42	51	56	25	75	8.0	6.1	8.6
10	8.1	73	50	36	37	122	57	23	54	7.4	6.6	8.3
11	8.8	62	40	32	32	250	54	20	40	6.8	5.7	8.0
12	16	52	45	29	30	181	55	18	33	6.4	114	7.7
13	18	108	182	26	29	111	54	18	28	6.1	141	7.4
14	15	462	120	25	31	107	48	17	23	5.9	310	14
15	13	368	79	25	49	132	43	16	20	5.5	350	12
16	11	178	62	22	43	99	45	16	19	5.3	124	8.0
17	11	124	52	22	38	196	74	15	42	4.8	78	7.4
18	9.9	94	41	24	33	195	72	15	32	5.0	54	6.6
19	9.1	81	37	28	30	166	87	17	23	5.7	40	6.4
20	8.4	103	81	25	28	126	102	20	20	8.0	32	6.4
21	8.4	85	65	27	26	99	92	16	17	17	25	5.9
22	8.8	69	55	102	25	78	144	15	15	8.9	21	5.7
23	9.3	57	47	120	25	65	181	14	14	7.7	19	5.5
24	9.1	50	44	80	22	57	129	14	13	12	18	5.3
25	8.6	47	49	59	21	104	96	13	12	15	17	5.0
26	8.4	50	50	52	21	334	73	12	12	19	15	5.0
27	8.4	52	44	53	20	280	60	13	39	23	14	4.8
28	8.6	52	39	65	20	148	49	14	41	12	12	4.6
29	8.4	48	36	82	-----	115	41	15	25	8.9	12	4.8
30	7.9	44	46	63	-----	116	38	14	18	8.0	12	4.8
31	8.1	-----	158	51	-----	132	-----	12	-----	7.7	15	-----
TOTAL	365.3	3,910	1,945	1,833	1,331	3,466	2,536	597	1,371	311.2	1,494.1	229.4
MEAN	11.8	130	62.7	59.1	47.5	112	84.5	19.3	45.7	10.0	48.2	7.65
MAX	35	462	182	168	151	334	229	35	230	23	350	14
MIN	7.9	44	32	22	20	20	38	12	11	4.8	5.5	4.6
CFSM	.28	3.07	1.48	1.39	1.12	2.64	1.99	.46	1.08	.24	1.14	.18
IN.	.32	3.43	1.71	1.61	1.17	3.04	2.22	.52	1.20	.27	1.31	.20

CAL YR 1972 TOTAL 16,504.8 MEAN 45.1 MAX 462 MIN 3.2 CFSM 1.06 IN 14.48
WTR YR 1973 TOTAL 19,389.0 MEAN 53.1 MAX 462 MIN 4.6 CFSM 1.25 IN 17.01

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0700	6.26	498	08-14	2400	6.30	510
11-14	1800	6.29	507				

03352500 Fall Creek at Millersville, Ind.

LOCATION.—Lat 39°51'07", long 86°05'15", in NE 1/4 NE 1/4 sec.9, T.16 N., R.4 E., Marion County, on right bank at downstream side of Emerson Way bridge at Millersville, 8.6 miles (13.8 km) upstream from mouth.

DRAINAGE AREA.—298 sq mi (772 sq km).

PERIOD OF RECORD.—October 1929 to current year. Monthly discharges only for some periods, published in WSP 1305. Twice-daily chain gage readings at former site and datum from July 1925 to September 1926 are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 722.16 ft (220.114 m) above mean sea level. Prior to Oct. 21, 1961, water-stage recorder at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.—44 years, 274 cfs (7.760 cu m/s), 12.49 in/yr (317 mm/yr).

EXTREMES.—Current year: Maximum discharge, 3,190 cfs (90.3 cu m/s) June 6, gage height, 8.43 ft (2.569 m); minimum daily, 60 cfs (1.70 cu m/s) Oct. 27, Sept. 23.

Period of record: Maximum discharge, 12,900 cfs (365 cu m/s) May 28, 1956, gage height, 13.53 ft (4.124 m); minimum daily, 7.8 cfs (0.22 cu m/s) Sept. 28, 1941.

Maximum stage known, 16.3 ft (4.97 m) Mar. 26, 1913, from floodmarks, discharge, 22,000 cfs (623 cu m/s) by slope-area measurement.

REMARKS.—Records good. Flow regulated by Geist Reservoir (See sta 03351700).

REVISIONS (WATER YEARS).—WSP 1335: 1930–31, 1933, 1936–38, 1942–43. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	273	329	644	472	180	1,550	296	167	198	113	87
2	135	1,760	320	486	864	183	1,280	299	151	165	93	82
3	115	2,240	293	458	1,010	193	963	284	145	151	85	75
4	111	1,500	290	954	848	205	804	253	284	178	81	75
5	113	932	245	945	688	228	724	235	2,110	223	79	77
6	105	692	548	680	552	230	632	218	3,000	167	71	79
7	103	584	994	493	462	258	572	208	1,950	141	68	74
8	100	676	816	392	423	273	532	250	1,130	121	74	74
9	98	744	652	341	368	359	465	265	776	111	85	76
10	96	588	552	300	332	680	465	250	572	107	80	75
11	109	486	465	270	296	1,560	444	245	437	106	75	71
12	114	406	451	240	273	1,760	444	203	368	82	386	70
13	116	612	936	225	260	1,170	437	185	409	80	544	69
14	101	2,380	1,060	210	284	916	402	171	395	80	1,110	143
15	100	2,620	768	198	359	1,110	374	165	305	82	1,260	100
16	86	1,670	552	185	413	1,020	386	151	260	71	660	80
17	85	1,010	455	185	359	1,420	504	163	420	68	392	75
18	96	772	368	193	323	1,620	500	151	444	67	255	67
19	89	676	353	215	293	1,450	512	200	365	65	188	63
20	69	696	476	210	273	1,240	608	248	284	88	165	62
21	71	668	532	210	258	949	680	198	230	350	143	61
22	75	552	486	389	245	724	904	173	188	210	115	61
23	79	465	441	692	235	612	1,390	171	161	157	96	60
24	70	402	399	672	223	520	1,250	175	137	200	111	62
25	69	377	402	490	208	704	904	159	130	278	107	74
26	61	383	416	406	205	1,810	672	157	122	395	100	69
27	60	399	392	389	198	2,050	516	180	299	332	93	71
28	66	399	353	444	183	1,400	409	190	441	260	87	73
29	62	386	320	588	-----	1,040	359	223	371	193	79	75
30	62	362	332	520	-----	1,070	329	213	258	153	98	75
31	67	-----	604	430	-----	1,160	-----	188	-----	125	114	-----
TOTAL	2,852	25,710	15,600	13,054	10,907	28,094	20,011	6,467	16,309	5,004	7,007	2,255
MEAN	92.0	857	503	421	390	906	667	209	544	161	226	75.2
MAX	169	2,620	1,060	954	1,010	2,050	1,550	299	3,000	395	1,260	143
MIN	60	273	245	185	183	180	329	151	122	65	68	60
CAL YR 1972	TOTAL	131,698	MEAN	360	MAX	2,620	MIN	60				
WTR YR 1973	TOTAL	153,270	MEAN	420	MAX	3,000	MIN	60				

03353000 White River at Indianapolis, Ind.

LOCATION.--Lat 39°45'05", long 86°10'30", in NW 1/4 NW 1/4 sec.14, T.15 N., R.3 E., Marion County, on downstream side of second pier from right bank of Morris Street bridge in Indianapolis, 2.5 miles (4.0 km) downstream from Fall Creek, and at mile 235.8 (379.4 km).

DRAINAGE AREA.--1,635 sq mi (4,235 sq km).

PERIOD OF RECORD.--March 1904 to July 1906 and April 1930 to current year. Gage-height record published in reports of U.S. Weather Bureau for site 1.1 miles (1.8 km) upstream Feb. 8, 1911, to Mar. 25, 1913, and at site 2.3 miles (3.7 km) upstream since Oct. 16, 1913. Prior to October 1948, published as West Fork White River at Indianapolis.

GAGE.--Water-stage recorder. Datum of gage is 662.26 ft (201.857 m) above mean sea level. March 1904 to July 1906, nonrecording gage at railroad bridge 0.8 mile (1.3 km) upstream at datum approximately 2.9 ft (0.88 m) higher. April 1930 to July 20, 1931, nonrecording gage at Indianapolis sanitation plant, 2.5 miles (4.0 km) downstream at datum 660.00 ft (201.168 m) lower. July 21, 1931, to Mar. 2, 1932, nonrecording gage at present site at datum 660.00 ft (201.168 m) lower.

AVERAGE DISCHARGE.--44 years (1904-5, 1930 to current year), 1,362 cfs (38.57 cu m/s), 11.31 in/yr (287 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,600 cfs (357 cu m/s) Nov. 16, gage height, 12.04 ft (3.670 m); minimum daily, 255 cfs (7.22 cu m/s) Sept. 13, 28.

Period of record: Maximum discharge, 37,200 cfs (1,050 cu m/s) May 18, 1943; maximum gage height, 21.57 ft (6.575 m) Jan. 16, 1937; minimum daily discharge, 8.0 cfs (0.23 cu m/s) Sept. 29, 1941.

Flood of Mar. 26, 1913, reached a stage of 30.0 ft (9.14 m), from floodmarks determined by Indianapolis Water Co., discharge, 70,000 cfs (1,980 cu m/s).

REMARKS.--Records fair. Natural flow affected by regulation of Morse Reservoir (See sta 03350300) and Geist Reservoir (See sta 03351700), and by diversion of municipal water supply by the Indianapolis Water Co.

REVISIONS (WATER YEARS).--WSP 1335: 1932-33, 1937, 1939-41. WSP 1505: 1938. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,030	948	1,710	4,710	1,700	705	6,090	1,640	607	1,740	712	440
2	2,390	5,290	1,590	3,750	2,880	663	6,300	1,670	558	1,320	621	385
3	1,600	8,640	1,380	3,110	4,960	719	4,910	1,570	614	1,030	516	360
4	1,320	9,830	1,310	4,070	4,630	796	3,980	1,450	1,430	1,590	460	324
5	1,110	6,950	1,290	4,920	3,450	980	3,530	1,260	4,890	1,110	410	300
6	1,210	4,070	2,400	3,840	2,740	1,120	3,310	1,180	8,000	932	376	285
7	1,090	3,240	5,460	2,600	2,280	1,500	2,990	1,140	8,750	764	336	279
8	932	3,040	5,880	1,990	2,010	1,470	2,670	1,380	8,500	656	320	294
9	756	4,250	3,880	1,610	1,720	1,910	2,430	1,330	5,500	594	415	320
10	642	3,970	2,850	1,340	1,480	2,770	2,340	1,290	2,980	522	425	288
11	642	3,010	2,400	1,090	1,290	7,000	2,240	1,270	2,200	486	400	264
12	712	2,450	2,370	1,000	1,150	8,660	2,200	1,210	1,790	480	2,030	261
13	1,110	2,990	4,750	900	1,060	7,870	2,180	1,040	1,680	425	3,290	255
14	1,020	9,110	6,630	840	1,160	5,560	2,110	932	1,780	376	3,770	964
15	876	11,800	5,340	790	1,400	5,520	2,050	868	1,340	390	8,230	804
16	698	12,000	3,430	750	1,470	5,800	2,010	852	1,140	364	7,460	712
17	607	8,430	2,340	719	1,380	6,390	2,420	812	1,930	328	4,180	480
18	552	4,650	1,910	719	1,240	7,620	3,060	796	2,040	352	2,510	376
19	528	3,720	2,010	940	1,110	7,670	3,470	988	1,750	320	1,770	340
20	510	3,430	2,470	956	1,070	6,600	3,830	1,150	1,310	570	1,390	312
21	420	3,500	2,800	1,060	1,010	5,250	3,780	964	1,040	2,480	1,030	294
22	425	3,320	2,820	2,110	964	3,950	4,450	844	844	1,200	1,200	332
23	546	2,690	2,510	3,260	908	3,230	7,050	796	726	1,070	996	340
24	546	2,260	2,250	3,450	852	2,740	8,320	748	628	1,650	780	297
25	600	2,000	2,220	2,460	828	3,220	5,850	698	594	1,640	712	332
26	606	1,950	2,370	1,770	756	7,760	3,980	649	670	1,810	670	282
27	552	2,000	2,260	1,570	726	10,600	2,980	788	2,740	1,810	576	267
28	510	2,040	2,040	1,660	677	9,490	2,440	748	3,620	1,550	480	255
29	546	2,070	1,830	2,070	-----	6,150	2,020	772	3,920	1,080	450	267
30	475	1,890	1,970	2,240	-----	5,190	1,780	726	2,630	820	445	267
31	480	-----	3,920	1,820	-----	5,230	-----	663	-----	614	576	-----
TOTAL	27,035	135,538	88,390	64,114	46,901	144,133	106,770	32,224	76,201	30,073	47,536	10,976
MEAN	872	4,518	2,851	2,068	1,675	4,649	3,559	1,039	2,540	970	1,533	366
MAX	3,030	12,000	6,630	4,920	4,960	10,600	8,320	1,670	8,750	2,480	8,230	964
MIN	420	948	1,290	719	677	663	1,780	649	558	320	320	255
CFSM	.53	2.76	1.74	1.26	1.02	2.84	2.18	.64	1.55	.59	.94	.22
IN.	.62	3.08	2.01	1.46	1.07	3.28	2.43	.73	1.73	.68	1.08	.25

CAL YR 1972 TOTAL 679,051 MEAN 1,855 MAX 12,000 MIN 133 CFSM 1.13 IN 15.45
WTR YR 1973 TOTAL 809,891 MEAN 2,219 MAX 12,000 MIN 255 CFSM 1.36 IN 18.43

PEAK DISCHARGE (BASE, 8,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-04	0800	10.92	10,200	04-24	1000	10.12	8,630
11-16	0100	12.04	12,600	06-07	0500	10.30	8,950
03-12	0200	10.21	8,790	08-15	1900	10.26	8,880
03-27	1700	11.26	10,900				

03353120 Pleasant Run at Arlington Avenue at Indianapolis, Ind.

LOCATION.—Lat 39°46'33", long 86°03'50", in SW 1/4 NW 1/4 sec.2, T.15 N., R.4 E., Marion County, on right bank 46 ft (14 m) upstream from Arlington Avenue bridge in Indianapolis, and 0.5 mile (0.8 km) downstream from small left-bank tributary.

DRAINAGE AREA.—7.58 sq mi (19.63 sq km).

PERIOD OF RECORD.—December 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 780.00 ft (237.744 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—13 years (1960-73), 6.88 cfs (0.195 cu m/s), 12.33 in/yr (313 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,020 cfs (28.9 cu m/s) Nov. 2, gage height, 8.08 ft (2.463 m); minimum daily, 0.41 cfs (0.012 cu m/s) Sept. 12, 13, 19, 21.

Period of record: Maximum discharge, 1,610 cfs (45.6 cu m/s) Mar. 4, 1963, gage height, 10.32 ft (3.146 m); no flow at times some years.

Flood in May 1956 reached a stage of 16.0 ft (4.88 m), from information by local resident.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	96	3.0	6.3	22	2.4	35	2.2	1.2	1.4	1.6	.80
2	2.6	225	3.0	4.1	26	2.4	12	2.6	2.6	11.2	1.2	.80
3	2.0	14	2.8	4.4	14	2.6	5.8	1.8	12	1.8	1.2	1.0
4	3.4	6.8	3.6	26	7.8	3.0	8.8	1.4	140	97	1.2	.80
5	2.8	4.4	6.3	6.8	5.8	5.4	4.4	1.4	291	8.8	1.0	1.4
6	2.2	3.6	70	4.4	4.7	2.6	3.4	1.2	69	2.8	1.6	1.0
7	1.4	28	8.8	2.4	3.8	4.7	2.8	2.0	14	1.6	.80	1.2
8	1.2	14	30	2.2	5.8	2.6	3.6	16	5.0	1.2	1.0	2.0
9	.80	7.3	16	1.6	3.6	28	5.8	3.2	2.8	1.2	4.4	1.2
10	.60	8.3	8.8	1.4	2.8	14	5.4	1.8	1.8	1.2	1.2	.80
11	11	5.8	4.7	1.2	2.6	67	3.4	1.4	1.4	1.0	.80	.60
12	2.8	3.8	46	1.0	2.4	11	5.8	1.2	3.8	.80	57	.41
13	1.6	165	35	1.0	3.0	5.4	3.0	1.0	1.4	1.6	11	.41
14	1.2	93	7.8	1.4	16	24	2.6	1.2	1.0	1.2	119	49
15	1.0	14	4.4	1.6	12	12	2.4	1.2	.80	1.0	19	2.2
16	1.2	7.3	3.0	1.8	6.0	19	13	1.0	1.8	1.0	4.1	1.0
17	1.2	4.1	2.0	2.2	4.5	69	6.3	.80	30	1.0	2.2	.60
18	1.4	3.2	2.2	2.5	3.4	22	13	.80	2.4	1.0	1.6	.80
19	1.4	14	14	3.0	3.3	13	11	26	1.6	1.0	1.2	.41
20	1.4	13	14	2.4	3.6	6.8	13	5.0	1.2	34	2.8	.60
21	2.0	5.8	7.3	25	3.4	4.4	19	1.8	1.0	142	1.2	.41
22	2.6	4.1	5.8	29	3.0	3.4	63	1.6	.80	11	.80	2.0
23	4.7	3.6	4.4	13	3.0	3.0	20	1.8	.80	5.0	1.0	1.6
24	1.6	3.0	4.4	6.3	2.6	2.6	6.8	1.0	.80	56	3.0	1.0
25	1.4	4.1	4.1	4.7	2.8	70	3.6	2.4	1.0	13	1.4	1.6
26	1.4	18	4.1	4.1	2.6	91	2.6	.80	19	11	1.0	1.0
27	2.6	8.3	3.4	5.8	2.6	16	2.2	10	32	3.2	1.0	1.0
28	3.4	4.1	3.2	16	2.4	5.8	2.2	7.3	4.4	1.8	1.2	1.2
29	2.6	3.2	3.2	8.3	-----	16	1.8	4.1	1.8	1.4	1.2	1.0
30	2.0	3.0	8.8	4.7	-----	12	1.8	3.6	1.4	1.8	1.0	.80
31	8.8	-----	20	3.8	-----	52	-----	1.8	-----	1.8	1.4	-----
TOTAL	78.70	787.8	354.1	238.0	175.5	593.1	283.5	109.40	647.80	409.80	248.10	78.64
MEAN	2.54	26.3	11.4	7.68	6.27	19.1	9.45	3.53	21.6	13.2	8.00	2.62
MAX	11	225	70	44	26	91	63	26	291	142	119	49
MIN	.60	3.0	2.0	1.0	2.4	2.4	1.8	.80	.80	.80	.80	.41
CFSM	.34	3.47	1.50	1.01	.83	2.52	1.25	.47	2.85	1.74	1.06	.35
IN.	.39	3.87	1.74	1.17	.86	2.91	1.39	.54	3.18	2.01	1.22	.39

CAL YR 1972 TOTAL 3,623.15 MEAN 9.90 MAX 225 MIN .60 CFSM 1.31 IN 17.78
WTR YR 1973 TOTAL 4,004.44 MEAN 11.0 MAX 291 MIN .41 CFSM 1.45 IN 19.65

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0430	8.08	1,020	06-05	1500	6.79	698
11-13	2300	6.72	680	07-04	1130	7.52	880
06-04	1630	6.02	505	07-21	0730	6.48	620
06-05	0100	7.83	958	08-12	1500	6.08	520

03353160 Pleasant Run at Brookville Road at Indianapolis, Ind.

LOCATION.—Lat 39°45'52", long 86°05'43", in NE 1/4 NW 1/4 sec.9, T.15 N., R.4 E., Marion County, on right bank at downstream side of Brookville Road bridge in Indianapolis, and 2.2 miles (3.5 km) downstream from Arlington Avenue.

DRAINAGE AREA.—10.1 sq mi (26.2 sq km).

PERIOD OF RECORD.—November 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 752.00 ft (229.210 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—13 years (1960 to current year), 9.33 cfs (0.264 cu m/s), 12.55 in/yr (319 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,200 cfs (34.0 cu m/s) Nov. 2, gage height, 7.14 ft (2.176 m); minimum daily, 0.14 cfs (0.004 cu m/s) Sept. 12, 13.

Period of record: Maximum discharge, 2,010 cfs (56.9 cu m/s) Mar. 4, 1963, gage height, 9.22 ft (2.810 m); no flow at times during most years.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1909: 1960. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	78	4.8	6.0	28	4.2	34	4.2	2.4	1.9	1.5	.55
2	1.5	259	4.5	4.5	24	3.9	7.9	4.2	3.3	1.9	1.2	.43
3	1.1	13	4.5	67	12	4.2	5.7	3.9	13	2.4	.83	.43
4	1.7	7.1	4.8	26	7.9	4.8	7.1	3.3	161	112	1.2	.43
5	1.7	5.7	7.9	7.1	7.1	7.5	5.1	3.6	378	7.9	.55	.69
6	1.4	5.1	87	4.8	6.0	3.9	4.2	3.3	72	3.3	1.4	.32
7	.89	30	8.4	3.6	5.7	5.4	3.6	3.6	12	1.9	.43	.32
8	.79	12	33	2.8	6.4	3.3	4.5	25	6.7	1.5	.43	3.6
9	.70	6.7	13	2.5	5.1	39	5.4	5.4	5.1	1.3	4.8	1.2
10	.62	7.5	8.9	1.9	4.5	13	5.4	4.5	4.2	1.3	1.7	.32
11	7.7	6.7	6.0	1.8	4.2	86	4.2	3.6	3.6	.99	.43	.32
12	1.9	5.4	60	1.8	4.2	11	5.4	3.6	6.6	.83	77	.14
13	1.2	213	39	2.0	5.1	7.5	3.9	3.6	2.8	1.3	13	.14
14	1.0	110	6.7	2.4	17	27	3.3	3.1	1.7	1.3	146	91
15	.89	11	4.8	2.6	11	9.8	3.3	2.4	1.5	1.3	26	3.3
16	.89	7.1	3.5	2.8	6.4	23	18	2.1	2.4	.99	6.0	1.2
17	1.1	6.0	3.0	3.1	5.7	72	6.0	1.7	42	.99	3.6	.69
18	.89	5.1	3.1	3.6	5.4	17	9.8	1.7	3.6	1.2	2.6	.69
19	1.1	21	12	3.8	5.4	9.3	8.4	27	2.8	.99	1.7	.55
20	.89	10	12	3.6	5.4	6.7	10	5.1	2.6	48	3.8	.55
21	1.1	6.7	6.4	39	5.1	5.4	28	2.8	1.9	157	1.5	.55
22	1.5	6.0	5.7	26	4.8	4.2	87	2.4	1.3	8.4	.99	4.8
23	2.5	5.4	4.8	12	4.8	3.6	19	2.4	1.3	4.8	.83	3.1
24	1.1	5.7	4.8	6.7	4.2	3.6	7.1	1.9	1.2	70	4.1	.99
25	.89	6.7	4.5	5.7	4.5	87	5.7	3.1	1.3	18	1.7	2.8
26	.79	9.8	4.5	5.1	4.5	96	4.8	2.1	26	14	.99	.99
27	.89	7.5	3.9	6.0	4.2	10	4.5	8.2	35	4.2	.83	.99
28	2.2	5.7	3.6	13	4.2	5.7	4.2	5.7	5.1	3.6	.83	1.2
29	1.4	5.1	3.3	7.1	-----	14	3.9	4.5	3.1	1.5	.99	1.2
30	1.0	5.1	8.9	5.4	-----	8.4	3.9	4.2	2.4	3.6	.83	.69
31	4.2	-----	21	5.1	-----	47	-----	2.8	-----	1.9	1.3	-----
TOTAL	47.93	883.1	398.3	284.8	212.8	643.4	323.3	155.0	805.9	480.29	309.06	124.18
MEAN	1.55	29.4	12.8	9.19	7.60	20.8	10.8	.00	26.9	15.5	9.97	4.14
MAX	7.7	259	87	67	28	96	87	27	378	157	146	91
MIN	.62	5.1	3.0	1.8	4.2	3.3	3.3	1.7	1.2	.83	.43	.14
CFSM	.15	2.91	1.27	.91	.75	2.06	1.07	.50	2.66	1.53	.99	.41
IN.	.18	3.25	1.47	1.05	.78	2.37	1.19	.57	2.97	1.77	1.14	.46

CAL YR 1972 TOTAL 4,172.02 MEAN 11.4 MAX 265 MIN .62 CFSM 1.13 IN 15.37
WTR YR 1973 TOTAL 4,668.06 MEAN 12.8 MAX 378 MIN .14 CFSM 1.27 IN 17.19

PEAK DISCHARGE (BASE, 520 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0400	7.14	1,200	06-05	1530	6.11	838
11-13	2300	5.96	793	07-04	1300	6.18	863
06-04	1700	5.40	625	07-21	0800	5.38	619
06-05	0130	6.92	1,120	08-12	1400	5.27	586

03353180 Bean Creek at Indianapolis, Ind.

LOCATION.--Lat 39°43'45", long 86°07'14", in NW 1/4 SW 1/4 sec.20, T.15 N., R.4 E., Marion County, on left bank 80 ft (24 m) upstream from Keystone Avenue bridge and west edge of Sarah Shank Golf Course in Indianapolis.

DRAINAGE AREA.--4.40 sq mi (11.40 sq km).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 735.00 ft (224.028 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 248 cfs (7.02 cu m/s) June 4, gage height, 5.09 ft (1.551 m); minimum daily, 0.82 cfs (0.023 cu m/s) Sept. 12, 13.

Period of record: Maximum discharge, 358 cfs (10.1 cu m/s) Feb. 4, 1971, gage height, 5.91 ft (1.801 m); minimum daily, 0.75 cfs (0.021 cu m/s) Feb. 2, 1971.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	31	4.7	5.1	17	3.0	19	3.7	1.7	1.3	2.0	.95
2	2.0	60	5.1	4.4	19	3.2	10	4.4	2.3	1.2	1.7	.92
3	2.0	13	3.7	21	15	3.1	7.1	2.9	7.0	1.5	1.5	.90
4	2.4	9.1	4.0	17	11	3.0	9.1	2.7	4.4	1.4	1.3	.87
5	2.0	7.1	6.3	8.7	9.1	4.0	5.9	2.7	9.8	3.5	1.1	.85
6	1.6	6.7	30	5.1	8.7	3.2	4.7	2.0	51	1.6	1.1	.85
7	1.4	18	4.5	3.4	7.9	4.1	4.4	2.4	12	1.3	1.2	.85
8	1.2	9.9	21	3.0	7.0	3.2	4.0	1.8	7.1	1.2	1.3	1.3
9	1.0	7.1	14	2.5	5.0	18	5.1	6.0	4.4	1.2	2.7	1.0
10	1.2	7.4	9.5	2.0	4.0	16	4.7	3.5	3.2	1.1	1.8	.90
11	5.9	5.9	5.9	1.7	3.2	43	4.0	2.7	2.9	1.1	1.2	.85
12	1.4	44	21	1.7	3.1	19	5.5	2.3	3.7	1.0	15	.82
13	1.5	50	20	1.9	3.5	16	3.7	2.0	2.7	1.0	6.7	.82
14	1.3	34	4.9	2.1	11	2.8	2.9	1.8	2.7	1.5	24	1.8
15	1.2	13	7.0	2.4	11	20	2.7	2.4	2.2	1.1	9.6	2.0
16	1.1	9.1	5.6	3.4	5.0	22	4.1	1.9	2.7	1.0	3.4	1.1
17	1.5	7.1	4.2	3.7	3.5	48	4.7	1.7	24	1.2	2.6	1.0
18	1.2	5.1	3.4	5.1	2.8	21	7.5	1.5	6.0	1.2	2.0	.95
19	1.7	13	12	8.7	2.6	15	7.5	2.5	4.0	1.3	1.6	.91
20	1.4	9.7	4.9	5.9	3.3	10	7.5	1.9	3.0	21	1.4	.90
21	1.2	7.1	6.7	14	4.0	7.0	4.1	1.5	2.0	80	1.2	.88
22	2.5	5.4	6.3	18	3.5	6.0	39	1.8	1.8	14	1.1	6.3
23	3.5	4.4	5.1	11	3.3	4.5	17	1.5	1.4	12	.90	2.2
24	2.2	3.7	5.5	8.7	3.2	4.0	4.5	1.4	1.3	29	3.2	1.2
25	1.5	5.1	4.7	8.7	3.1	45	6.3	2.0	1.2	13	1.4	2.7
26	1.5	7.4	3.7	8.7	3.0	50	4.7	1.5	12	12	1.2	1.4
27	1.5	6.7	2.4	4.5	3.3	15	4.0	5.4	21	7.5	1.2	1.8
28	3.0	5.1	2.1	14	3.0	11	2.9	3.5	8.0	4.0	1.4	1.5
29	2.5	4.4	2.7	4.1	-----	15	2.7	3.0	3.0	2.6	1.2	1.5
30	2.0	4.0	8.7	7.5	-----	13	2.9	2.8	1.6	4.5	1.0	2.4
31	7.5	-----	13	7.1	-----	23	-----	2.0	-----	2.8	1.2	-----
TOTAL	66.0	415.0	268.7	225.1	179.1	446.3	227.2	45.4	341.9	240.7	98.20	60.62
MEAN	2.13	13.4	8.7	7.26	6.40	16.0	7.57	3.08	11.4	7.76	3.17	2.02
MAX	7.5	60	30	21	19	50	39	1.8	9.8	80	24	18
MIN	1.0	3.7	2.7	1.7	2.6	3.0	2.7	1.4	1.2	1.0	.90	.82
CFSM	.44	3.14	1.97	1.65	1.45	3.64	1.72	.70	2.59	1.76	.72	.46
IN.	.56	3.1	2.27	1.90	1.51	4.20	1.92	.41	2.49	2.04	.83	.51

CAL YR 1972 TOTAL 2,224.20 MEAN 6.04 MAX 60 MIN 1.0 CFSM 1.34 IN 16.85
 WTR YR 1973 TOTAL 2,714.22 MEAN 7.44 MAX 98 MIN .82 CFSM 1.69 IN 22.95

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0330	4.82	213	04-22	1030	3.77	99	07-21	0700	4.65	193
11-13	2130	4.50	175	06-04	2345	5.09	248	09-14	0600	3.50	80
12-06	0045	3.53	82	06-06	1100	3.61	89	09-22	2000	3.75	100
01-03	1700	3.56	85	06-18	0230	3.64	91				

03353200 Eagle Creek at Zionsville, Ind.

LOCATION.--Lat 39°56'56", long 86°15'22", in SW 1/4 NW 1/4 sec.1, T.17 N., R.2 E., Boone County, on downstream side of second pier from right bank of bridge on State Highway 334 at Zionsville, and 200 ft (61 m) upstream from Long Branch.

DRAINAGE AREA.--103 sq mi (267 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: October 1957 to current year.

SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 816.85 ft (248.976 m) above mean sea level. Prior to Oct. 9, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 93.1 cfs (2.637 cu m/s), 12.27 in/yr (312 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,080 cfs (87.2 cu m/s) Nov. 2, gage height, 9.43 ft (2.874 m); minimum daily, 4.0 cfs (0.11 cu m/s) Sept. 13.

Period of record: Maximum discharge, 12,400 cfs (351 cu m/s) Apr. 20, 1964, gage height, 14.64 ft (4.462 m); no flow at times during 1959, 1963-68, 1970, 1971.

Flood of June 28, 1957, reached a stage of 19.20 ft (5.852 m), from floodmark.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	241	97	428	148	30	478	48	17	117	14	8.0
2	73	2,220	83	223	857	35	301	45	15	85	11	6.0
3	41	773	75	205	505	44	203	39	16	60	8.6	5.7
4	55	388	81	556	272	59	171	33	55	62	7.4	5.4
5	160	238	93	243	203	107	146	28	420	75	6.4	5.4
6	117	171	617	137	160	150	124	25	452	37	6.0	5.4
7	79	154	260	123	129	135	110	26	228	25	5.7	5.1
8	53	207	158	103	118	121	101	48	143	20	5.1	5.1
9	36	155	121	90	95	152	97	42	111	16	5.4	5.1
10	23	132	100	80	75	309	104	32	90	15	6.0	5.1
11	36	119	79	70	55	1,360	97	26	75	13	6.4	4.6
12	139	104	196	60	48	546	110	22	62	11	1,110	4.3
13	107	424	759	52	41	274	101	20	55	8.6	380	4.0
14	79	1,930	291	48	54	330	88	18	37	7.7	512	20
15	56	599	172	42	76	356	79	16	29	7.4	521	21
16	44	331	122	37	60	210	113	16	30	6.7	242	9.1
17	44	224	110	30	56	825	252	16	284	6.0	141	6.4
18	34	166	100	39	52	581	222	15	203	5.7	87	5.7
19	28	148	90	87	46	513	304	19	129	5.4	50	5.1
20	26	203	206	69	42	330	424	21	90	8.1	34	4.6
21	27	193	154	72	39	212	357	16	60	94	23	4.8
22	32	153	156	511	36	157	975	17	39	39	17	4.3
23	73	125	120	385	37	128	665	18	29	19	13	4.3
24	96	107	128	173	32	112	322	18	23	269	14	4.3
25	73	103	156	125	30	610	198	18	19	269	14	4.3
26	60	114	138	118	32	1,840	137	20	48	215	12	5.4
27	52	117	111	124	29	697	107	20	1,730	200	10	4.8
28	52	129	96	158	29	341	83	23	498	96	9.0	4.3
29	48	111	93	172	-----	323	64	23	257	39	8.2	4.3
30	41	104	347	117	-----	299	53	21	170	24	7.6	4.3
31	41	-----	1,120	95	-----	402	-----	20	-----	18	9.5	-----
TOTAL	1,954	10,183	6,429	4,772	3,356	11,588	6,586	769	5,414	1,873.6	3,296.3	186.2
MEAN	63.0	339	207	154	120	374	220	24.8	180	60.4	106	6.21
MAX	160	2,220	1,120	556	857	1,840	975	48	1,730	269	1,110	21
MIN	23	103	75	30	29	30	53	15	15	5.4	5.1	4.0
CFSM	.61	3.29	2.01	1.50	1.17	3.63	2.14	.24	1.75	.59	1.03	.06
IN.	.71	3.68	2.32	1.72	1.21	4.19	2.38	.28	1.96	.68	1.19	.07

CAL YR 1972 TOTAL 41,193.45 MEAN 113 MAX 2,470 MIN .69 CFSM 1.10 IN 14.88
WTR YR 1973 TOTAL 56,407.10 MEAN 155 MAX 2,220 MIN 4.0 CFSM 1.50 IN 20.37

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1000	9.43	3,080	03-26	1300	8.17	2,180
11-14	0400	9.20	2,900	04-22	1600	7.37	1,740
12-31	0500	6.99	1,530	06-27	0600	9.00	2,770
03-11	1100	7.91	2,040	08-12	0900	8.07	2,120

03353200 Eagle Creek at Zionsville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT MENT DIS- CHARGE (T/DAY)
NOV. 24...	1155	5.5	108	47	14
DEC. 27...	1220	1.5	107	21	6.1
FEB. 05...	1200	2.0	201	22	12
APR. 16...	1150	8.5	75	31	6.3
JUNE 14...	1145	24.5	35	48	4.5
JULY 13...	1600	24.5	8.4	45	1.0
SEP. 03...	1040	25.5	6.1	18	.30

WABASH RIVER BASIN

03353450 Eagle Creek Reservoir near Indianapolis, Ind.

LOCATION.--Lat 39°49'20", long 86°18'11", in NW 1/4 NW 1/4 sec.22, T.16 N., R.2 E., Marion County, in outlet structure of reservoir on Eagle Creek, 800 ft (240 m) upstream from Interstate Highway 74, 0.5 mile (0.8 km) downstream from School Branch, 1.0 mile (1.6 km) northeast of Clermont, and 2 miles (3.2 km) west of Indianapolis.

DRAINAGE AREA.--162 sq mi (419 sq km).

PERIOD OF RECORD.--March 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft (237.744 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 24,670 acre-ft (30.4 cu hm) Aug. 12, elevation, 790.48 ft (240.938 m); minimum, 18,800 acre-ft (23.2 cu hm) Dec. 23, elevation, 785.92 ft (239.548 m).

Period of record: Maximum contents, 24,670 acre-ft (30.4 cu hm) Aug. 12, 1973, elevation, 790.48 ft (240.938 m); minimum, 13,750 acre-ft (17.0 cu hm) Nov. 28, 1971, elevation, 781.25 ft (238.125 m).

REMARKS.--Reservoir is formed by earth-fill dam. Low flow is controlled through a 48-inch (1,219 mm) diameter conduit. Spillway elevation, 783 ft (238.7 m) is an ogee section with 6 taintor gates, each 40 ft (12.2 m) wide and 25 ft (7.6 m) high. Permanent pool capacity is 24,000 acre-ft (29.6 cu hm), elevation, 790.00 ft (240.792 m). Reservoir is used for flood control, pollution abatement, and recreation. Reservoir put into operation Nov. 27, 1969.

COOPERATION.--Records furnished by Indianapolis Flood Control District.

Month-and elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	790.07	24,100	-
Oct. 31.....	789.98	23,970	-130
Nov. 30.....	787.11	20,240	-3,730
Dec. 31.....	786.10	19,020	-1,220
Calendar year 1972.....	-	-	-3,080
Jan. 31.....	787.02	20,130	+1,110
Feb. 28.....	786.97	20,060	-70
Mar. 31.....	790.12	24,170	+4,110
Apr. 30.....	790.03	24,040	-130
May 31.....	790.07	24,100	+60
June 30.....	790.01	24,010	-90
July 31.....	790.07	24,100	+90
Aug. 31.....	789.71	23,620	-480
Sept. 30.....	788.77	22,400	-1,220
Water year 1973.....	-	-	-1,700

[illegible]

03353600 Little Eagle Creek at Speedway, Ind.

LOCATION.--Lat 39°47'15", long 86°13'41", in NE 1/4 SW 1/4 sec.32, T.16 N., R.3 E., Marion County, on right bank at downstream side of 16th Street bridge in Speedway, 0.6 mile (1.0 km) upstream from Dry Run, and 2.4 miles (3.9 km) upstream from mouth.

DRAINAGE AREA.--23.9 sq mi (61.9 sq km) including 5.57 sq mi (14.43 sq km) from Dry Run basin. Since June 1964 part of the flow from the 5.57 sq mi (14.43 sq km) of Dry Run basin has been diverted into Little Eagle Creek above gage.

PERIOD OF RECORD.--October 1959 to current year. Figures of runoff June 1964 to September 1966 have been found to be in error and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 710.82 ft (216.658 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--14 years, 17.3 cfs (0.490 cu m/s).

EXTREMES.--Current year: Maximum discharge, 932 cfs (26.4 cu m/s) Nov. 2, gage height, 4.84 ft (1.475 m); minimum daily, 1.5 cfs (0.042 cu m/s) Sept. 20.

Period of record: Maximum discharge, 1,940 cfs (54.9 cu m/s) Apr. 25, 1961, gage height, 7.44 ft (2.268 m); no flow at times most years.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	143	23	35	36	8.4	49	10	6.2	7.3	7.7	2.8
2	4.1	516	21	22	57	9.0	26	9.6	7.0	6.3	7.3	2.8
3	4.1	77	19	58	34	9.6	20	9.2	13	5.5	7.0	2.3
4	11	45	19	99	21	10	21	9.0	137	101	6.8	2.3
5	8.6	34	23	33	16	11	19	9.0	236	19	6.6	2.8
6	5.5	31	52	23	14	10	18	8.8	53	11	6.4	2.8
7	4.1	36	34	16	12	11	16	8.5	14	8.5	6.3	2.3
8	3.5	36	31	14	11	12	18	13	9.4	6.8	6.2	3.5
9	2.8	31	26	12	10	62	19	16	9.4	5.6	41	4.8
10	2.8	26	23	11	10	40	17	13	9.4	5.0	12	2.8
11	8.6	24	20	10	9.8	257	16	11	9.4	4.6	9.4	2.3
12	7.0	22	53	9.3	9.8	36	15	9.4	8.6	5.2	67	2.3
13	4.8	207	86	8.8	11	21	14	8.4	8.0	4.9	48	1.7
14	4.1	359	41	8.7	15	35	13	7.7	7.2	5.3	53	69
15	4.1	61	32	9.0	16	30	15	7.2	6.5	5.8	23	7.0
16	3.5	43	23	11	13	22	22	6.8	8.6	5.2	8.6	4.1
17	4.1	37	17	15	12	140	20	6.4	67	4.8	6.2	2.2
18	4.1	35	13	19	12	44	19	9.4	12	4.6	5.5	1.7
19	4.1	41	25	32	11	31	24	27	12	4.5	4.8	1.6
20	3.5	41	38	21	11	22	29	15	9.5	35	4.8	1.5
21	2.8	36	29	62	11	19	24	11	8.0	149	4.1	1.6
22	4.8	35	25	116	9.5	17	105	9.0	7.0	19	3.5	1.7
23	12	31	21	62	10	15	42	7.8	6.4	16	3.5	1.9
24	6.2	28	21	37	9.5	14	22	7.2	6.2	123	4.1	1.7
25	4.8	28	23	32	9.0	99	13	6.6	6.0	56	4.1	1.6
26	4.1	34	22	30	10	190	12	8.3	23	45	3.5	1.7
27	4.8	34	18	28	9.4	41	11	12	41	14	2.8	2.0
28	5.5	31	17	41	9.0	24	10	9.6	13	10	2.8	2.8
29	4.8	26	17	40	-----	26	10	8.0	13	9.2	2.8	5.5
30	4.8	25	32	34	-----	54	10	7.0	9.4	8.6	5.5	4.1
31	7.0	-----	84	27	-----	102	-----	6.6	-----	8.0	3.5	-----
TOTAL	161.5	2,153	928	975.8	419.0	1,422.0	669	307.5	776.2	713.7	377.8	147.2
MEAN	5.21	71.8	29.9	31.5	15.0	45.9	22.3	9.92	25.9	23.0	12.2	4.91
MAX	12	516	86	116	57	257	105	27	236	149	67	69
MIN	2.8	22	13	8.7	9.0	8.4	10	6.4	6.0	4.5	2.8	1.5

CAL YR 1972 TOTAL 8,052.6 MEAN 22.0 MAX 516 MIN 2.1
WTR YR 1973 TOTAL 9,050.7 MEAN 24.8 MAX 516 MIN 1.5

PEAK DISCHARGE (BASE, 450 CFS).--Nov. 2 (0415) 932 cfs (4.84 ft); Nov. 14 (0130) 797 cfs (4.39 ft).

03353620 Lick Creek at Indianapolis, Ind.

LOCATION.—Lat 39°42'21", long 86°06'13", in NE 1/4 NE 1/4 sec.32, T.15 N., R.4 E., Marion County, on left bank at upstream side of Sherman Drive bridge in Indianapolis.

DRAINAGE AREA.—15.6 sq mi (40.4 sq km).

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 742.00 ft (226.162 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 908 cfs (25.7 cu m/s) June 5, gage height, 6.32 ft (1.926 m) from recorded range in stage; minimum daily, 2.0 cfs (0.057 cu m/s) Sept. 27.

Period of record: Maximum discharge, 908 cfs (25.7 cu m/s) June 5, 1973, gage height, 6.32 ft (1.926 m) from recorded range in stage; minimum daily, 1.4 cfs (0.040 cu m/s) May 4, 1971.

REMARKS.—Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	100	12	19	48	9.6	100	12	5.8	4.7	6.6	2.7
2	6.0	250	10	8.5	60	9.6	45	14	7.5	13.8	5.9	2.2
3	4.5	45	9.0	63	42	10	29	11	24	4.7	5.3	2.5
4	7.2	20	10	54	29	10	32	8.9	140	32	5.0	2.2
5	5.0	17	30	33	22	14	25	8.5	300	11	4.7	2.5
6	4.5	13	100	17	19	12	20	6.5	100	4.7	4.1	2.2
7	3.3	55	30	10	16	14	17	8.0	35	4.5	4.1	2.7
8	3.0	25	60	7.0	15	12	17	27	20	3.9	3.8	3.5
9	2.7	17	35	6.0	13	65	19	16	15	3.5	8.1	4.7
10	3.5	19	20	5.6	11	61	19	10	13	3.4	5.9	3.0
11	15	13	16	5.8	10	167	16	9.4	12	3.3	4.1	2.5
12	6.0	11	70	6.2	10	55	20	8.0	14	3.2	36	2.2
13	3.5	100	60	6.6	11	33	14	7.0	18	3.2	14	2.2
14	3.1	67	25	7.2	28	62	12	6.7	10	6.2	62	59
15	2.8	30	18	7.7	41	50	10	8.0	9.2	3.8	39	7.0
16	2.8	19	13	7.7	22	49	33	7.0	15	3.0	10	4.4
17	3.0	14	10	9.2	17	159	31	6.0	81	3.2	8.1	4.1
18	3.0	12	8.0	11	14	76	35	5.4	22	3.0	6.2	3.5
19	3.5	40	40	14	14	49	40	10	14	3.0	5.6	3.2
20	3.8	25	30	11	15	34	45	7.0	10	54	5.6	3.0
21	3.8	17	20	39	13	26	28	5.4	7.3	245	5.0	2.7
22	4.7	13	15	85	12	19	107	6.2	6.6	49	4.1	14
23	8.1	10	17	49	11	16	82	5.5	5.0	26	4.1	8.1
24	5.0	9.0	14	25	10	14	44	4.9	4.1	103	7.0	3.2
25	4.1	13	12	20	10	121	31	7.0	3.8	67	4.7	4.4
26	3.8	20	9.7	19	10	188	24	5.4	12	45	4.1	2.7
27	4.5	15	8.0	22	9.6	60	19	20	66	22	3.8	2.0
28	7.5	12	7.2	33	9.2	36	16	12	19	14	3.5	2.5
29	6.2	10	7.0	28	-----	48	14	9.5	8.9	10	3.2	3.8
30	5.0	10	20	19	-----	50	13	8.0	5.3	8.5	3.0	3.5
31	15	-----	45	15	-----	90	-----	6.7	-----	7.3	2.7	-----
TOTAL	162.9	1,021.0	780.9	663.5	541.8	1,619.2	957	287.0	1,003.5	758.9	289.3	166.2
MEAN	5.25	34.0	25.2	21.4	19.4	52.2	31.9	9.26	33.5	24.5	9.33	5.54
MAX	15	250	100	85	60	188	107	27	300	245	62	59
MIN	2.7	9.0	7.0	5.6	9.2	9.6	10	4.9	3.8	3.0	2.7	2.0
CFSM	.34	2.18	1.62	1.37	1.24	3.35	2.04	.59	2.15	1.57	.60	.36
IN.	.39	2.43	1.86	1.58	1.29	3.86	2.28	.68	2.39	1.81	.69	.40

CAL YR 1972 TOTAL 6,598.40

MEAN 18.0 MAX 250 MIN .20

CFSM 1.15 IN 15.73

WTR YR 1973 TOTAL 8,251.20

MEAN 22.6 MAX 300 MIN 2.0

CFSM 1.45 IN 19.68

PEAK DISCHARGE (BASE, 200, revised)

NOTE.—No gage-height record
Oct. 1-16, Oct. 26 to
Jan. 14, May 5 to June 11.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	unknown	5.40	560	03-25	1300	4.06	222	06-05	unknown	6.32	908
a	unknown	4.37	284	03-26	0700	4.33	276	07-21	0630	5.06	458
03-11	0730	4.23	256	04-22	1300	4.07	226	07-24	1200	4.02	216
03-17	0300	4.14	238								

a Probably occurred Dec. 12 or Jan. 3.

03353700 West Fork White Lick Creek at Danville, Ind.

LOCATION.--Lat 39°45'36", long 86°30'47", in NW 1/4 NE 1/4 sec.10, T.15 N., R.1 W., Hendricks County, on downstream (revised) side of bridge on U.S. Highway 36, 0.1 mile (0.2 km) east of city limits of Danville, 0.5 mile (0.8 km) upstream from small left-bank tributary, and 7 miles (11.3 km) west of Avon.

DRAINAGE AREA.--28.8 sq mi (74.6 sq km).

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 828.83 ft (252.627 m) above mean sea level. Prior to Oct. 23, 1968, nonrecording gage and crest-stage gage on upstream side of bridge at same datum. Oct. 23, 1968, to Aug. 6, 1970 water-stage recorder on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--15 years, 27.2 cfs (0.770 cu m/s), 12.83 in/yr (326 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,540 cfs (71.9 cu m/s) Nov. 2, gage height, 9.71 ft (2.960 m); minimum daily, 0.62 cfs (0.018 cu m/s) Sept. 13, 20, 21.

Period of record: Maximum discharge, 3,330 cfs (94.3 cu m/s) July 14, 1962, gage height, 11.32 ft (3.450 m); no flow at times some years.

Flood of June 28, 1957, reached a stage of 16.0 ft (4.88 m), from floodmarks, discharge, 6,660 cfs (189 cu m/s), from contracted-opening measurement.

REMARKS.--Records fair.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	330	27	89	48	17	135	20	8.0	22	16	3.6
2	31	1,360	23	51	302	18	86	20	8.0	17	14	2.3
3	23	300	21	74	153	20	67	17	10	15	13	1.9
4	113	167	20	141	92	21	60	16	51	139	12	1.7
5	139	115	20	70	70	28	50	14	223	58	10	1.7
6	75	91	98	45	57	39	39	14	100	25	9.9	1.6
7	49	102	55	30	46	29	35	15	49	17	9.1	1.2
8	35	113	39	25	38	26	32	32	28	13	8.0	1.4
9	24	80	32	21	32	46	32	21	20	11	21	1.9
10	18	69	25	18	25	80	32	17	15	10	16	1.6
11	24	58	20	17	22	370	28	15	13	8.3	11	1.2
12	32	50	85	16	21	145	33	14	25	7.2	66	.87
13	22	246	170	15	20	82	28	13	18	6.6	366	.62
14	17	490	66	15	24	87	26	12	12	6.2	280	6.2
15	13	162	42	15	34	79	24	11	12	8.0	106	2.0
16	12	92	31	14	23	62	57	11	17	5.0	50	1.2
17	9.9	64	24	15	20	252	86	10	394	4.0	32	.87
18	7.2	46	23	17	19	172	62	9.9	86	3.8	20	1.0
19	5.9	51	50	32	20	147	105	10	45	3.2	16	.87
20	4.6	81	89	24	21	96	188	9.5	31	16	13	.62
21	5.3	59	54	36	20	68	111	8.7	22	500	9.9	.62
22	6.9	45	45	126	20	54	230	9.1	19	139	8.0	1.6
23	43	37	35	88	20	43	166	9.5	16	61	6.9	2.3
24	31	32	36	45	18	39	93	8.7	15	356	6.9	1.6
25	16	32	40	36	18	212	61	8.7	14	125	6.2	1.4
26	13	34	35	36	18	364	43	9.5	161	93	5.3	1.0
27	12	35	28	36	16	156	33	21	465	49	3.8	.74
28	13	37	24	45	16	88	26	14	147	32	3.4	.74
29	12	32	29	46	-----	87	22	11	59	24	3.0	1.7
30	10	30	120	36	-----	144	21	9.9	33	21	6.2	1.6
31	11	-----	250	31	-----	186	-----	9.1	-----	18	8.0	-----
TOTAL	873.8	4,440	1,656	1,305	1,233	3,257	2,011	420.6	2,116.0	1,813.3	1,156.6	47.65
MEAN	28.2	148	53.4	42.1	44.0	105	67.0	13.6	70.5	58.5	37.3	1.59
MAX	139	1,360	250	141	302	370	230	32	465	500	366	6.2
MIN	4.6	30	20	14	16	17	21	8.7	8.0	3.2	3.0	.62
CFSM	.98	5.14	1.85	1.46	1.53	3.65	2.33	.47	2.45	2.03	1.30	.06
IN.	1.13	5.74	2.14	1.69	1.59	4.21	2.60	.54	2.73	2.34	1.49	.06

CAL YR 1972 TOTAL 14,239.44 MEAN 38.9 MAX 1,360 MIN .03 CFSM 1.35 IN 18.39
WTR YR 1973 TOTAL 20,329.95 MEAN 55.7 MAX 1,360 MIN .62 CFSM 1.93 IN 26.26

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0500	9.71	2,540	06-26	2315	7.75	1,600
11-13	2330	6.35	1,050	07-21	0845	6.91	1,260
06-17	0200	6.01	934	08-13	0315	7.15	1,360

03353800 White Lick Creek at Mooresville, Ind.

LOCATION.--Lat 39°36'28", long 86°22'56", in NE 1/4 SE 1/4 sec.35, T.14 N., R.1 E., Morgan County, on right bank at downstream side of bridge on State Highway 42 at Mooresville, 1.0 mile (1.6 km) downstream from McCracken Creek, and 2.0 miles (3.2 km) upstream from East Fork White Lick Creek.

DRAINAGE AREA.--212 sq mi (549 sq km).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 644.64 ft (196.486 m) above mean sea level. Dec. 10, 1963, to Sept. 30, 1964, non-recording gage at bridge 1,950 ft (594 m) upstream at datum 1.39 ft (0.424 m) higher.

AVERAGE DISCHARGE.--16 years, 205 cfs (5.806 cu m/s), 13.13 in/yr (334 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,250 cfs (234 cu m/s) Nov. 2, gage height, 20.81 ft (6.343 m); minimum daily, 23 cfs (0.651 cu m/s) Sept. 27-29.

Period of record: Maximum discharge, 18,000 cfs (510 cu m/s) Mar. 4, 1963, gage height, 22.95 ft (6.995 m); minimum daily, 2.0 cfs (0.057 cu m/s) Dec. 24, 25, 1960, Sept. 2, 1966.

Flood of June 28, 1957, reached a stage of 22.5 ft (6.86 m), from levels to high-water mark by Indiana Flood Control and Water Resources Commission.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	894	205	759	268	124	1,130	180	74	141	141	35
2	151	6,800	183	432	1,190	127	699	174	71	116	127	32
3	104	2,760	169	470	944	136	504	169	82	174	118	29
4	217	996	163	1,430	570	144	456	150	380	309	108	28
5	612	637	163	598	438	180	393	139	2,100	330	100	27
6	315	465	524	332	348	198	330	132	1,140	174	94	26
7	217	432	432	246	248	202	294	132	486	121	84	29
8	169	584	304	207	232	204	282	204	266	98	76	35
9	129	405	250	174	194	400	268	181	192	84	84	37
10	100	340	200	160	176	800	280	150	153	120	110	35
11	97	294	160	155	158	2,700	258	136	131	80	77	34
12	154	254	283	139	150	1,190	278	124	118	66	77	31
13	136	998	1,360	124	150	605	248	114	138	59	700	29
14	113	5,000	540	122	176	555	224	106	103	63	443	122
15	94	1,310	328	124	238	615	213	103	94	64	350	63
16	74	728	210	119	205	441	224	100	95	53	202	43
17	74	504	160	124	162	1,760	477	97	1,800	48	141	35
18	67	375	181	138	167	1,190	375	95	501	43	106	29
19	59	375	258	268	158	1,000	534	92	266	39	86	27
20	53	584	682	217	155	693	1,160	90	187	120	76	26
21	50	453	465	198	148	501	968	89	144	1,150	66	25
22	52	354	390	1,000	139	375	1,810	86	122	800	57	25
23	114	242	315	700	139	310	1,460	86	108	332	52	27
24	178	254	292	429	131	274	796	84	100	2,300	51	27
25	127	242	328	297	127	1,200	501	83	92	1,700	51	25
26	105	264	315	270	129	2,700	355	80	86	1,370	47	25
27	94	272	266	280	126	1,270	282	88	1,340	531	42	23
28	100	262	234	335	124	693	234	97	633	299	38	23
29	100	236	224	420	-----	574	202	88	292	215	37	23
30	90	221	428	282	-----	808	187	84	189	180	38	24
31	80	-----	1,730	236	-----	1,110	-----	78	-----	158	42	-----
TOTAL	4,263	27,547	11,742	10,789	7,470	23,079	15,422	3,611	11,483	13,337	3,821	999
MFAN	138	920	379	348	267	744	514	116	383	430	123	33.3
MAX	612	6,800	1,730	1,430	1,190	2,700	1,810	204	2,100	3,150	700	122
MIN	50	221	160	119	124	124	187	78	71	39	37	23
CFSM	.65	4.134	1.79	1.64	1.26	3.51	2.42	.55	1.81	2.03	.58	.16
IN.	.75	4.84	2.06	1.89	1.31	4.05	2.71	.63	2.01	2.34	.67	.18

CAL YR 1972 TOTAL 48,413 MFAN 269 MAX 6,800 MIN 16 CFSM 1.27 IN 17.27
 WTR YR 1973 TOTAL 133,613 MFAN 366 MAX 6,800 MIN 23 CFSM 1.73 IN 23.45

PEAK DISCHARGE (BASE, 3000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1600	20.81	8,250	06-17	0730	17.10	4,380
11-14	0500	19.96	7,010	07-21	1430	17.24	4,490
03-11	-----	-----	43,800	07-24	1700	15.97	3,580
03-26	-----	-----	43,800				

a About

03354000 White River near Centerton, Ind.

LOCATION.--Lat 39°30'02", long 86°24'24", in SW 1/4 SE 1/4 sec.3, T.12 N., R.1 E., Morgan County, on right bank 0.4 mile (0.6 km) downstream from bridge on Blue Bluff Road, 1 mile (1.6 km) south of Centerton, 1.1 miles (1.8 km) downstream from White Lick Creek, and at mile 202.6 (326.0 km).

DRAINAGE AREA.--2,444 sq mi (6,330 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: July 1925 to September 1930 (gage heights only), October 1930 to March 1932, October 1946 to current year. Monthly discharge only for October and November 1946, published in WSP 1305. Published as West Fork White River at Martinsville prior to March 1932, and as West Fork White River near Centerton October 1946 to September 1948.

WATER TEMPERATURE: September 1953 to April 1956, October 1966 to September 1967, May 1970 to September 1972.

SEDIMENT DISCHARGE: March 1965 to July 1968 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 595.44 ft (181.490 m) above mean sea level (Corps of Engineers bench mark), levels by Indianapolis Power and Light Co. See WSP 1725 for history of changes prior to July 1953.

AVERAGE DISCHARGE.--28 years (1930-31, 1946 to current year, 2,324 cfs (65.82 cu m/s), 12.91 in/yr (328 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,500 cfs (496 cu m/s) Nov. 14, gage height, 12.89 ft (3.929 m); minimum daily, 628 cfs (17.8 cu m/s) Sept. 29.

Period of record: Maximum discharge, 50,500 cfs (1,430 cu m/s) Apr. 22, 1964, gage height, 17.57 ft (5.355 m); minimum daily, 131 cfs (371 cu m/s) Nov. 15, 1930.

Flood in March 1913 reached a stage of 22.8 ft (6.95 m) at Martinsville site (from information by State Highway Department of Indiana) and 21.9 ft (6.68 m) at present site (from information by Corps of Engineers), discharge, 90,000 cfs (2,550 cu m/s).

REMARKS.--Records good. Flow regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 1335: 1948-49. WSP 1909: 1931(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,200	2,480	2,720	7,710	3,310	1,430	10,300	2,870	1,300	2,900	1,870	964
2	3,780	11,200	2,920	6,180	5,090	1,440	9,660	2,710	1,250	2,200	1,800	850
3	2,660	15,900	2,640	5,260	7,250	1,510	8,380	2,660	1,250	1,840	1,540	808
4	2,160	13,000	2,560	8,170	7,500	1,520	6,760	2,470	1,970	2,220	1,380	766
5	2,460	12,400	2,470	7,430	6,200	1,790	5,940	2,210	9,410	2,790	1,320	748
6	2,110	8,420	4,210	6,590	4,890	1,960	5,310	2,020	11,500	1,870	1,190	742
7	1,960	5,920	5,920	4,770	4,050	2,260	4,870	1,970	11,800	1,590	1,140	706
8	1,690	5,970	8,090	3,630	3,610	2,490	4,490	2,450	10,800	1,360	1,020	688
9	1,470	5,670	7,540	2,930	3,170	2,780	4,030	2,340	9,680	1,250	1,030	736
10	1,290	6,420	5,170	2,480	2,740	5,210	3,940	2,200	5,390	1,230	1,370	700
11	1,180	5,370	4,070	2,150	2,460	10,500	3,740	2,110	3,680	1,130	1,130	700
12	1,390	4,390	3,650	2,010	2,240	12,800	3,650	2,030	2,960	1,050	1,170	682
13	1,460	5,010	7,630	1,950	2,120	11,600	3,590	1,820	2,650	985	4,850	658
14	1,640	15,900	8,580	1,950	2,120	9,840	3,300	1,660	2,620	915	4,240	1,270
15	1,470	15,500	8,660	1,870	2,740	8,300	3,390	1,570	2,360	936	7,260	1,300
16	1,250	15,000	6,060	1,840	2,710	8,350	3,170	1,480	2,120	868	9,470	1,280
17	1,150	14,600	4,220	1,800	2,480	11,100	4,180	1,430	6,080	832	7,700	1,010
18	1,010	10,300	3,260	1,790	2,360	11,900	4,790	1,400	4,020	814	4,230	850
19	973	6,500	3,190	2,090	2,150	11,800	5,650	1,370	3,510	796	2,870	766
20	941	6,550	4,470	2,180	2,070	10,900	6,980	1,730	2,970	820	2,290	724
21	868	5,790	4,580	2,100	1,990	9,050	6,700	1,560	2,220	7,560	1,860	700
22	776	5,810	4,890	4,410	1,890	6,790	8,280	1,460	1,880	4,610	1,670	682
23	856	4,960	4,350	5,890	1,790	5,300	12,000	1,400	1,640	2,510	1,750	802
24	1,090	3,970	3,790	5,900	1,750	4,480	11,800	1,350	1,550	5,180	1,430	694
25	1,080	3,650	3,630	4,930	1,680	5,390	11,100	1,310	1,530	6,360	1,330	706
26	1,100	3,500	3,680	3,800	1,580	11,500	7,300	1,270	1,350	7,980	1,250	694
27	976	3,570	3,700	3,360	1,610	14,600	5,330	1,390	4,070	4,060	1,150	652
28	1,000	3,470	3,390	3,310	1,490	14,500	4,290	1,460	5,920	3,480	1,060	640
29	954	3,510	3,200	3,980	-----	11,900	3,560	1,470	5,180	2,680	971	628
30	903	3,380	3,450	4,010	-----	9,510	3,040	1,490	4,210	2,210	922	634
31	852	-----	5,680	3,720	-----	8,940	-----	1,390	-----	1,930	1,050	-----
TOTAL	46,699	228,110	142,370	120,190	85,040	231,440	179,520	56,050	126,870	76,956	73,313	23,780
MEAN	1,506	7,604	4,593	3,877	3,037	7,466	5,984	1,808	4,229	2,482	2,365	793
MAX	4,200	15,900	8,660	8,170	7,500	14,600	12,000	2,870	11,800	7,980	9,470	1,300
MIN	776	2,480	2,470	1,790	1,490	1,430	3,040	1,270	1,250	796	922	628
CFSM	.62	3.11	1.88	1.59	1.24	3.05	2.45	.74	1.73	1.02	.97	.32
IN.	.71	3.47	2.17	1.83	1.29	3.52	2.73	.85	1.93	1.17	1.12	.36

CAL YR 1972 TOTAL 1,084,229 MEAN 2,962 MAX 22,800 MIN 318 CFSM 1.21 IN 16.50
WTR YR 1973 TOTAL 1,390,338 MEAN 3,809 MAX 15,900 MIN 628 CFSM 1.56 IN 21.16

PEAK DISCHARGE (BASE, 9,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0700	12.81	17,200	03-27	unknown	unknown	15,000	07-21	1800	9.07	10,900
11-14	2000	12.89	17,500	04-01	0200	8.84	10,600	07-24	2300	8.29	9,740
03-11	2200	10.52	13,200	04-23	1400	9.94	12,300	07-26	1000	8.91	10,700
03-18	0200	9.86	12,200	06-06	1800	9.82	12,100	08-16	1300	8.24	9,660

03354500 Beanblossom Creek at Beanblossom, Ind.

LOCATION.—Lat 39°15'45", long 86°14'55", in SW 1/4 NW 1/4 sec.31, T.10 N., R.3 E., Brown County, on right bank 15 ft (5 m) downstream from bridge on State Highway 135, 0.3 mile (0.5 km) south of Beanblossom, and 2.5 miles (4.0 km) upstream from North Fork Beanblossom Creek.

DRAINAGE AREA.—14.6 sq mi (37.8 sq km).

PERIOD OF RECORD.—October 1951 to current year. Prior to October 1965, published as Bean Blossom Creek at Bean Blossom.

GAGE.—Water-stage recorder. Datum of gage is 673.65 ft (205.329 m) above mean sea level.

AVERAGE DISCHARGE.—22 years, 15.7 cfs (0.445 cu m/s), 14.60 in/yr (371 mm/yr).

EXTREMES.—Current year: Maximum discharge, 952 cfs (27.0 m) July 24, gage height, 6.49 ft (1.978 m); minimum daily, 0.05 cfs (0.001 cu m/s) Oct. 10.

Period of record: Maximum discharge, 8,140 cfs (231 cu m/s) June 23, 1960, gage height, 11.78 ft (3.591 m), from curve extended above 2,000 cfs (56.6 cu m/s) on basis of contracted-opening measurement; no flow for many days in most years.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1555: 1952, 1953(M), 1956–57. WSP 1705: 1952(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	22	8.4	17	32	5.3	50	17	12	6.5	3.5	.26
2	.13	93	6.5	13	111	5.9	38	17	7.2	4.6	2.8	.22
3	.06	19	6.2	44	63	7.1	30	14	7.8	3.5	2.3	.18
4	.22	9.2	7.1	95	42	5.9	41	10	10	5.6	1.9	.18
5	.39	5.6	7.4	41	32	10	37	8.4	33	4.2	1.6	.15
6	.30	4.0	113	25	24	8.8	29	7.1	46	2.8	1.4	.15
7	.15	21	42	15	20	30	27	6.5	26	2.6	1.1	.13
8	.11	30	144	10	16	25	50	20	16	2.0	1.0	.18
9	.07	15	91	7.0	13	141	43	12	12	1.6	1.4	.49
10	.05	10	45	5.2	10	106	45	12	9.7	7.1	1.4	.34
11	.11	7.4	28	4.4	9.2	395	42	9.2	7.6	2.8	.94	.22
12	.34	5.6	30	3.7	8.8	76	38	6.8	6.0	1.7	1.7	.15
13	.39	211	101	3.5	8.4	43	30	5.3	4.8	1.4	14	.13
14	.30	175	43	3.7	20	46	24	4.8	4.0	1.0	2.8	.22
15	.22	42	31	4.0	36	49	20	4.4	11	1.0	2.2	.22
16	.18	25	20	4.2	23	42	22	4.0	15	.86	1.4	.13
17	.18	17	14	4.6	18	166	30	3.3	16	.71	1.0	.11
18	.13	12	12	5.9	14	79	219	3.1	8.0	.64	.86	.18
19	.11	19	21	11	12	64	126	3.1	16	.64	.78	.22
20	.11	33	53	7.7	11	76	130	3.3	21	1.1	.71	.13
21	.11	22	38	22	10	61	63	2.8	9.2	94	.64	.15
22	.15	16	30	93	9.6	39	231	2.6	5.6	38	.59	.11
23	.39	12	23	64	8.0	30	418	2.9	4.2	11	.49	.13
24	.39	10	19	33	6.8	24	106	2.6	8.8	199	.54	.13
25	.34	10	16	21	6.5	84	73	2.6	7.7	106	.54	.22
26	.22	21	14	16	6.5	135	56	2.8	5.6	52	.44	.22
27	.30	21	12	15	5.9	58	40	7.7	255	25	.34	.18
28	.49	15	10	23	5.3	38	29	9.6	59	12	.34	.18
29	.54	11	9.6	29	-----	35	22	24	21	6.5	.34	.22
30	.49	10	10	14	-----	35	18	35	10	5.0	.30	.18
31	.78	-----	23	12	-----	58	-----	28	-----	4.2	.26	-----
TOTAL	8.19	923.8	1,028.2	675.9	582.0	1,978.0	2,127	241.9	675.2	605.05	49.61	5.71
MEAN	.26	30.8	33.2	21.8	20.8	63.8	70.9	9.42	22.5	19.5	1.60	.19
MAX	.78	211	144	95	111	395	418	35	255	199	14	.49
MIN	.05	4.0	6.2	3.5	5.3	5.3	18	2.6	4.0	.64	.26	.11
CFSM	.02	2.11	2.27	1.49	1.42	4.37	4.86	.65	1.54	1.34	.11	.01
IN.	.02	2.35	2.62	1.72	1.48	5.04	5.42	.74	1.72	1.54	.13	.01

CAL YR 1972 TOTAL 6,001.10 MEAN 16.4 MAX 770 MIN 0 CFSM 1.12 IN 15.29
WTR YR 1973 TOTAL 8,950.56 MEAN 24.5 MAX 418 MIN .05 CFSM 1.68 IN 22.81

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	2300	6.11	821	06-27	1000	5.68	704
03-11	0900	6.08	812	07-24	1600	6.49	952
04-23	0700	5.73	719				

03355000 Bear Creek near Trevlac, Ind.

LOCATION.—Lat 39°16'40", long 86°20'45", in NE 1/4 NE 1/4 sec.30, T.10 N., R.2 E., Brown County, on left bank 15 ft (5 m) west of Bear Creek Road, 100 ft (30 m) upstream from Slippery Elm Shoot Road ford, 1.1 miles (1.8 km) northwest of Trevlac, and 1.3 miles (2.1 km) upstream from mouth.

DRAINAGE AREA.—6.94 sq mi (17.97 sq km).

PERIOD OF RECORD.—May 1952 to September 1973 (discontinued as a continuous-record station; converted to a crest-stage and low-flow partial-record station).

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 640 ft (195 m), from topographic map.

AVERAGE DISCHARGE.—21 years, 6.69 cfs (0.189 cu m/s), 13.09 in/yr (332 mm/yr).

EXTREMES.—Current year: Maximum discharge, 379 cfs (10.9 cu m/s) Nov. 13, gage height, 4.37 ft (1.33 m); minimum daily, 0.05 cfs (0.001 cu m/s) Sept. 7.

Period of record: Maximum discharge, 1,830 cfs (51.8 cu m/s) June 12, 1957, gage height, 7.62 ft (2.323 m), from rating curve extended above 290 cfs (8.21 cu m/s) on basis of slope-area measurement of peak flow at gage height, 6.43 ft (1.960 m); no flow at times most years.

REMARKS.—Records good except for period of no gage-height record, which is fair.

REVISIONS (WATER YEARS).—WSP 1555: 1952(M), 1955(M), 1956-57. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	9.8	4.0	10	13	3.0	26	6.4	5.0	1.3	.82	.09
2	.23	54	3.4	7.4	21	3.0	20	6.6	3.0	1.0	.72	.07
3	.17	7.1	3.0	35	20	3.1	15	5.6	4.0	.77	.52	.06
4	.55	3.9	3.3	42	15	3.1	20	4.4	7.0	1.0	.48	.06
5	.55	2.5	3.6	18	11	4.0	18	3.7	30	.77	.48	.07
6	.35	1.8	50	12	8.8	4.2	13	3.5	50	.67	.44	.06
7	.27	7.1	21	7.7	7.2	7.2	12	3.1	22	.62	.44	.05
8	.21	8.4	60	4.7	5.8	7.2	17	13	10	.57	.44	.09
9	.19	4.8	30	3.4	4.8	47	17	7.4	6.0	.59	.48	.12
10	.15	3.7	18	2.6	4.0	63	18	7.7	4.0	3.3	.48	.12
11	.31	2.8	14	2.2	3.8	168	16	6.4	3.0	.88	.34	.09
12	.51	2.3	16	2.0	3.7	33	17	4.2	2.5	.52	1.0	.07
13	.31	134	45	1.8	3.7	19	13	3.5	1.9	.44	.88	.06
14	.27	57	15	1.8	11	18	11	3.0	1.5	.34	.52	.13
15	.23	14	9.0	1.9	21	16	9.4	2.4	1.6	.27	.44	.10
16	.23	9.2	7.6	2.0	13	19	12	2.1	2.2	.22	.40	.07
17	.21	7.3	6.5	2.1	9.0	73	14	1.8	2.2	.22	.31	.07
18	.19	6.2	6.0	2.4	7.2	36	26	1.5	1.5	.22	.24	.07
19	.19	10	15	3.5	6.6	27	52	1.4	4.2	.22	.17	.06
20	.17	15	24	2.8	5.9	29	50	1.6	3.7	.52	.12	.06
21	.19	9.3	16	10	5.4	24	25	1.4	2.1	55	.10	.06
22	.21	7.6	12	36	4.7	18	134	1.2	1.3	18	.09	.15
23	.35	6.1	9.2	24	4.2	13	133	1.3	1.0	6.1	.09	.12
24	.25	5.1	7.4	16	3.7	10	40	1.2	.82	52	.12	.07
25	.23	4.8	5.8	10	3.7	49	23	1.1	.77	19	.12	.10
26	.21	10	4.6	8.3	3.7	69	17	1.0	.79	7.7	.11	.09
27	.25	9.5	3.9	7.4	3.2	26	13	3.0	12	5.4	.11	.09
28	.35	6.8	3.7	8.6	3.2	19	10	4.0	5.9	2.9	.11	.10
29	.31	5.1	3.5	9.7	-----	18	8.0	5.4	2.7	1.9	.09	.12
30	.25	4.5	3.8	8.0	-----	18	6.9	12	1.7	1.7	.09	.10
31	2.0	-----	17	6.6	-----	36	-----	10	-----	1.3	.12	-----
TOTAL	10.24	429.7	441.3	309.9	227.3	882.8	806.3	130.9	194.38	185.44	10.87	2.57
MEAN	.33	14.3	14.2	10.0	8.12	28.5	26.9	4.22	6.48	5.98	.35	.086
MAX	2.0	134	60	42	21	168	134	13	50	55	1.0	.15
MIN	.15	1.8	3.0	1.8	3.2	3.0	6.9	1.0	.77	.22	.09	.05
CFSM	.05	2.06	2.05	1.44	1.17	4.11	3.88	.61	.93	.86	.05	.01
IN.	.05	2.30	2.37	1.66	1.22	4.73	4.32	.70	1.04	.99	.06	.01

CAL YR 1972 TOTAL 2,725.59 MEAN 7.45 MAX 191 MIN 0 CFSM 1.07 IN 14.61
WTR YR 1973 TOTAL 3,631.70 MEAN 9.00 MAX 168 MIN .05 CFSM 1.43 IN 19.47

(PEAK DISCHARGE (BASE, 200 CFS))

NOTE.—No gage-height record
Nov. 16 to Dec. 27.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	1800	4.37	379	04-22	1100	3.68	226
03-11	0500	3.80	250	06-06	unknown	3.64	218

03355400 Lake Lemon near Bloomington, Ind.

LOCATION.--Lat 39°16'20", long 86°25'37", in NW 1/4 SE 1/4 sec.28, T.10 N., R.1 E., Monroe County, on left side of dam on Bean-blossom Creek, 5 miles (8 km) downstream from Bear Creek, 5.5 miles (8.8 km) west of Trevlac, and 9.2 miles (14.8 km) north-east of Bloomington.

DRAINAGE AREA.--70.9 sq mi (184 sq km).

PERIOD OF RECORD.--April 1953 to March 1958, October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.10 ft (189.006 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 16,970 acre-ft (20.9 cu hm) Apr 23, gage height, 11.48 ft (3.499 m); minimum, 11,250 acre-ft (13.9 cu hm) Oct. 31, gage height, 7.75 ft (2.362 m).

Period of record: Maximum contents, 20,470 acre-ft (25.2 cu hm) May 24, 1968, gage height, 13.32 ft (4.060 m); minimum, 5,390 acre-ft (6.65 cu hm) Mar. 3, 1964, gage height, 2.50 ft (0.762 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by 42-inch (1,067 mm) diameter gate in 42-inch (1,067 mm) conduit. Capacity at uncontrolled spillway elevation, 9.87 ft (3.008 m) is 14,420 acre-ft (17.8 cu hm). Reservoir is used for flood control, low-flow augmentation, and recreation. Reservoir put in operation on April 15, 1953.

COOPERATION.--Capacity tables furnished by Indiana Department of Natural Resources.

REVISIONS.--WRD Ind. 1968: Drainage area.

Month-end gage height and contents, water year October 1972 to September 1973

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	8.25	11,950	-
Oct. 31.....	7.77	11,280	-670
Nov. 30.....	9.02	13,030	+1,750
Dec. 31.....	10.05	14,680	+1,650
Calendar year 1972.....	-	-	+660
Jan. 31.....	10.30	15,080	+400
Feb. 28.....	10.24	14,980	-100
Mar. 31.....	10.48	15,370	+390
Apr. 30.....	10.42	15,270	-100
May 31.....	10.27	15,030	-240
June 30.....	10.25	15,000	-30
July 31.....	10.11	14,780	-220
Aug. 31.....	9.55	13,880	-900
Sept. 30.....	8.80	12,720	-1,160
Water year 1973.....			-770

03356000 Beanblossom Creek at Dolan, Ind.

LOCATION.—Lat 39°14'30", long 86°29'57", in NW 1/4 SW 1/4 sec.2, T.9 N., R.1 W., Monroe County, on downstream side of pier of highway bridge at Dolan, 5.8 miles (9.3 km) northeast of Bloomington, and 17.5 miles (28.2 km) upstream from mouth.

DRAINAGE AREA.—100 sq mi (259 sq km).

PERIOD OF RECORD.—April 1946 to current year. Prior to October 1965, published as Bean Blossom Creek at Dolan.

GAGE.—Water-stage recorder. Datum of gage is 576.41 ft (175.690 m) above mean sea level (unadjusted). Prior to Sept. 28, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—27 years, 112 cfs (3.172 cu m/s), 15.21 in/yr (386 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,090 cfs (59.2 cu m/s) Apr. 24, gage height, 13.92 ft (4.243 m); minimum daily, 12 cfs (0.34 cu m/s) Oct. 20, 26.

Period of record: Maximum discharge, 9,420 cfs (267 cu m/s) June 2, 1947; maximum gage height, 17.9 ft (5.46 m) Jan. 5, 1949; no flow at times during 1946-49, 1953.

REMARKS.—Records good. Flow regulated by Lake Lemon 8.1 miles (13.0 km) upstream (See sta 03355400).

REVISIONS (WATER YEARS).—WSP 1113: 1947. WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	151	64	145	152	54	462	112	93	75	31	14
2	14	714	56	119	261	54	347	105	69	52	25	14
3	16	155	50	178	333	59	260	81	70	38	23	14
4	71	63	47	646	287	55	247	72	94	37	21	14
5	80	40	45	427	224	81	255	64	511	35	20	15
6	30	32	290	248	173	79	219	63	820	30	19	15
7	23	54	278	166	143	102	186	61	598	26	17	14
8	16	109	439	118	110	115	209	104	291	24	17	14
9	14	57	813	90	93	290	238	107	162	22	17	15
10	13	44	469	70	82	811	237	95	99	25	16	15
11	13	41	261	55	76	1,500	245	90	68	23	16	14
12	14	34	203	40	70	1,440	236	70	52	20	17	14
13	14	359	558	30	68	570	215	57	52	18	28	14
14	13	1,340	421	31	85	335	177	48	41	18	20	16
15	13	672	263	32	182	313	148	40	38	17	19	15
16	14	282	168	33	150	262	145	37	54	16	18	15
17	13	164	120	34	130	764	165	32	58	16	17	16
18	13	110	80	37	120	722	383	29	50	16	16	16
19	13	111	90	50	109	529	795	30	54	16	16	16
20	12	177	176	51	99	476	1,000	29	88	16	16	16
21	13	155	201	71	89	529	666	28	61	240	16	16
22	14	126	181	293	80	351	706	26	45	300	16	16
23	14	95	150	433	73	250	1,690	26	35	183	16	15
24	13	77	123	319	68	213	1,810	23	35	216	16	14
25	13	71	103	217	64	465	753	23	38	615	16	14
26	12	83	90	161	60	775	414	22	35	321	16	14
27	13	108	79	132	57	620	265	38	329	178	15	14
28	13	98	71	127	55	373	192	43	568	104	15	14
29	13	83	64	162	-----	281	152	64	254	64	15	14
30	13	72	81	142	-----	278	119	143	128	47	14	14
31	15	-----	167	123	-----	339	-----	130	-----	38	15	-----
TOTAL	582	5,677	6,201	4,780	3,493	13,085	12,936	1,892	4,890	2,846	559	441
MEAN	18.8	189	200	154	125	422	431	61.0	163	91.8	18.0	14.7
MAX	80	1,340	813	646	333	1,500	1,810	143	820	615	31	16
MIN	12	32	45	30	55	54	119	22	35	16	14	14
CAL YR 1972	TOTAL 15,007	MEAN 41.0	MAX 1,570	MIN 12								
WTR YR 1973	TOTAL 57,382	MEAN 157	MAX 1,810	MIN 12								

03357350 Plum Creek near Bainbridge, Ind.

LOCATION.—Lat 39°45'42", long 86°43'46", in SW 1/4 SE 1/4 sec.3, T.15 N., R.3 W., Putnam County, on right upstream wingwall of bridge on U.S. Highway 36, 0.5 mile (0.8 km) west of Groveland, and 4.5 miles (7.2 km) east of Bainbridge.

DRAINAGE AREA.—3.00 sq mi (7.77 sq km).

PERIOD OF RECORD.—July 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 828.44 ft (252.509 m) above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 380 cfs (10.8 cu m/s) Nov. 2, gage height, 4.15 ft (1.265 m); minimum daily, 0.03 cfs (0.001 cu m/s) Sept. 24.

Period of record: Maximum discharge, 632 cfs (17.9 cu m/s) July 24, 1971, gage height, 5.29 ft (1.612 m); no flow at times during August, September, and October 1970.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	69	2.9	8.8	6.5	1.3	8.6	2.0	.52	1.7	4.6	1.1
2	1.3	119	2.4	5.7	24	1.4	6.5	1.9	.46	1.3	1.5	.70
3	.91	12	2.2	13	10	1.5	5.2	1.6	.53	1.2	1.1	.49
4	19	8.1	2.3	16	6.6	1.5	4.7	1.4	2.1	42	.82	.38
5	9.7	5.8	2.6	6.6	5.4	6.0	4.0	1.3	12	6.8	.67	.34
6	5.1	5.0	11	4.0	4.4	4.8	3.6	1.2	3.6	3.1	.56	.31
7	3.5	8.9	4.5	2.9	3.8	6.4	3.3	1.4	2.0	2.0	.45	.20
8	2.3	7.6	4.2	2.4	3.4	4.5	3.8	2.4	1.4	1.5	.36	.18
9	1.5	5.4	3.4	1.9	2.5	9.6	4.2	1.7	1.0	1.2	2.2	.29
10	1.2	5.2	2.6	1.6	2.1	10	4.3	1.3	.80	1.3	2.7	.21
11	2.7	4.2	1.9	1.4	1.9	54	3.9	1.1	.66	.79	1.3	.15
12	2.1	3.6	28	1.1	1.8	9.5	4.7	.95	.72	.62	6.0	.13
13	1.6	39	16	1.2	1.9	6.3	3.7	.86	.79	.49	12	.06
14	1.4	26	6.4	1.3	2.6	9.9	3.3	.83	.48	.42	22	.71
15	1.1	9.6	4.6	1.3	2.6	7.2	3.0	.78	.72	.42	8.5	.20
16	1.2	6.6	3.0	1.4	1.7	7.8	6.0	.76	3.1	.29	4.9	.11
17	.96	5.1	2.2	1.7	1.6	30	9.0	.68	65	.21	2.6	.08
18	.82	4.2	2.2	2.7	1.6	16	6.5	.62	5.1	.17	1.9	.07
19	.76	6.5	11	4.6	1.7	11	21	.62	4.7	.15	1.6	.06
20	.70	7.8	8.6	2.3	1.7	8.6	19	.52	2.5	14	1.2	.05
21	.70	5.7	5.9	4.1	1.6	6.1	7.9	.47	1.6	92	.92	.04
22	1.5	4.7	4.9	10	1.4	4.9	18	.49	1.3	9.0	.73	.04
23	3.6	3.8	4.1	6.6	1.4	4.1	12	.59	.96	5.2	.62	.04
24	2.1	3.5	4.4	3.9	1.3	3.7	7.2	.52	.79	61	.62	.03
25	1.7	3.6	4.5	3.2	1.4	30	5.2	.53	.66	8.5	.56	.56
26	1.4	4.1	4.1	3.0	1.4	35	4.0	.53	41	13	.40	.12
27	1.3	4.1	3.5	3.2	1.3	10	3.3	1.5	27	5.2	.32	.05
28	1.4	4.1	3.1	5.1	1.2	6.6	2.6	1.1	7.6	2.8	.23	.05
29	1.3	3.3	4.0	5.0	-----	12	2.2	.85	4.4	2.0	.20	.58
30	1.1	3.3	44	3.8	-----	10	2.1	.94	2.3	1.8	12	.21
31	1.3	-----	24	3.2	-----	12	-----	.70	-----	1.6	2.1	-----
TOTAL	77.25	398.8	228.5	133.0	98.8	341.7	192.8	32.14	195.79	281.76	95.66	7.54
MEAN	2.49	13.3	7.37	4.29	3.53	11.0	6.43	1.04	6.53	9.09	3.09	.25
MAX	19	119	44	16	24	54	21	2.4	65	92	22	1.1
MIN	.70	3.3	1.9	1.1	1.2	1.3	2.1	.47	.46	.15	.20	.03
CFSM	.83	4.43	2.46	1.43	1.18	3.67	2.14	.35	2.18	3.03	1.03	.08
IN.	.96	4.95	2.83	1.65	1.23	4.24	2.39	.40	2.43	3.49	1.19	.09

CAL YR 1972 TOTAL 1,378.06 MEAN 3.77 MAX 119 MIN .01 CFSM 1.26 IN 17.09
WTR YR 1973 TOTAL 2,083.74 MEAN 5.71 MAX 119 MIN .03 CFSM 1.90 IN 25.84

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0400	4.15	380	07-04	1100	3.35	205
12-30	2015	3.19	157	07-21	0830	3.93	336
06-17	0200	3.62	274	07-24	0430	3.64	278
06-26	2100	3.99	348				

03357500 Big Walnut Creek near Reelsville, Ind.

LOCATION.--Lat 39°32'11", long 86°58'35", in NW 1/4 SW 1/4 sec.28, T.13 N., R.5 W., Putnam County, on left bank at highway bridge, 1.5 miles (2.4 km) southwest of Reelsville, and 3 miles (4.8 km) upstream from Mill Creek.

DRAINAGE AREA.--326 sq mi (844 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: July 1949 to current year. Published as Eel River near Reelsville, October 1952 to September 1956.

SEDIMENT DISCHARGE: September 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 588.24 ft (179.296 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Dec. 10, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 333 cfs (9.431 cu m/s), 13.87 in/yr (352 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,970 cfs (226 cu m/s) Nov. 2, gage height, 14.69 ft (4.478 m); minimum daily, 48 cfs (1.35 cu m/s) Sept. 24.

Period of record: Maximum discharge, 27,400 cfs (776 cu m/s) June 28, 1957, gage height, 18.63 ft (5.678 m), from rating curve extended above 18,000 cfs (510 cu m/s) on basis of slope-conveyance method; minimum daily, 1.4 cfs (0.040 cu m/s) Sept. 8, 1954.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1335: 1950. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	778	405	1,540	456	163	1,300	360	161	333	309	119
2	230	6,910	369	914	2,100	169	1,030	354	143	260	210	86
3	171	4,930	336	922	1,770	183	794	333	157	250	175	75
4	282	2,010	315	1,910	1,070	185	678	285	253	730	155	69
5	766	1,320	315	1,100	798	375	609	255	1,500	694	139	66
6	558	942	670	694	650	543	549	243	955	378	128	64
7	387	862	762	450	552	585	504	240	570	258	114	61
8	297	1,030	567	380	507	540	546	342	381	208	107	59
9	235	818	501	330	370	634	510	303	268	179	175	61
10	175	690	426	290	330	1,030	525	250	213	245	438	64
11	149	618	333	260	290	3,710	486	220	179	195	198	62
12	167	546	549	240	280	2,280	504	195	159	147	161	58
13	195	1,150	2,710	240	270	1,140	468	183	297	126	570	55
14	171	3,400	1,230	230	291	1,060	417	173	195	117	570	54
15	149	1,960	790	230	339	1,210	390	163	161	133	682	69
16	131	1,220	520	235	294	870	612	159	185	109	408	82
17	119	890	420	235	220	2,550	990	151	2,940	94	263	65
18	114	706	390	255	225	1,940	694	145	1,880	86	193	58
19	103	662	468	453	248	1,700	806	137	926	83	159	54
20	94	882	1,130	384	238	1,330	1,620	133	612	135	137	52
21	89	778	846	342	225	1,010	995	124	435	3,380	121	51
22	98	670	734	818	200	766	1,700	121	348	1,710	104	50
23	155	576	615	946	198	638	1,910	117	276	642	92	50
24	191	504	558	638	189	567	1,200	117	238	1,560	86	48
25	183	468	561	483	183	1,720	826	112	208	1,260	83	58
26	155	501	543	426	181	3,670	646	112	288	830	80	62
27	141	516	468	423	175	2,270	543	151	2,070	730	78	55
28	135	486	432	453	167	1,270	465	405	1,200	483	73	50
29	135	459	408	588	-----	1,000	408	260	630	348	71	50
30	128	420	898	480	-----	1,260	372	223	435	268	159	54
31	126	-----	3,030	411	-----	1,160	-----	193	-----	273	263	-----
TOTAL	6,365	37,702	22,299	17,300	12,816	37,528	23,097	6,559	18,263	16,244	6,501	1,861
MEAN	205	1,257	719	558	458	1,211	770	2	609	524	210	62.0
MAX	766	6,910	3,030	1,910	2,100	3,710	1,910	5	2,940	3,380	682	119
MIN	89	420	315	230	167	163	372	12	143	83	71	48
CFSM	.63	3.86	2.21	1.71	1.40	3.71	2.36	.65	1.87	1.61	.64	.19
IN.	.73	4.30	2.54	1.97	1.46	4.28	2.64	.75	2.08	1.85	.74	.21

CAL YR 1972 TOTAL 146,375 MEAN 400 MAX 6,910 MIN 13 CFSM 1.23 IN 16.70
WTR YR 1973 TOTAL 206,535 MEAN 566 MAX 6,910 MIN 48 CFSM 1.74 IN 23.57

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1400	14.69	7,970	03-11	1300	11.84	4,970	06-17	1600	10.50	3,950
11-14	0700	10.12	3,680	03-17	1100	9.35	3,140	06-27	1700	9.27	3,090
12-13	0500	10.18	3,730	03-26	1500	10.56	3,990	07-21	1500	11.32	4,560
12-31	0500	10.06	3,640								

03357500 Big Walnut Creek near Reelsville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
NOV. 15...	1200	1960	132	699

WABASH RIVER BASIN

03358000 Mill Creek near Cataract, Ind.

LOCATION.--Lat 39°26'00", long 86°45'48", in NE 1/4 SE 1/4 sec.32, T.12 N., R.3 W., Owen County, on right bank at downstream side of bridge on State Highway 43, and 3 miles (4.8 km) east of Cataract.

DRAINAGE AREA.--245 sq mi (635 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: July 1949 to current year.

SEDIMENT DISCHARGE: September 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 706.40 ft (215.311 m) above mean sea level. Prior to Nov. 8, 1949, nonrecording gage, and Nov. 8, 1949, to Sept. 22, 1968, water-stage recorder at site 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE.--24 years, 248 cfs (7.023 cu m/s), 13.75 in/yr (349 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,620 cfs (131 cu m/s) July 22, gage height, 16.12 ft (4.913 m); minimum daily, 12 cfs (0.34 cu m/s) Sept. 20-24, 27, 28.

Period of record: Maximum discharge, 11,400 cfs (323 cu m/s) June 24, 1960, gage height, 22.58 ft (6.882 m); minimum daily, 0.1 cfs (0.003 cu m/s) Sept. 7, 28, 1954.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 1505: 1956(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	886	192	1,120	381	92	1,390	156	68	148	141	37
2	73	3,160	166	480	1,490	95	727	162	59	113	112	25
3	50	3,640	150	461	1,210	108	507	153	68	97	94	21
4	211	2,790	142	1,920	615	116	417	122	158	772	83	18
5	73	890	150	853	430	504	405	104	2,050	524	75	17
6	302	475	509	378	334	377	326	97	2,310	211	68	16
7	162	429	475	220	265	331	274	96	1,070	129	63	16
8	107	942	328	170	210	292	266	455	452	98	58	16
9	41	524	310	140	140	482	255	282	248	85	115	21
10	61	388	260	130	160	1,270	293	172	169	222	191	22
11	61	325	170	120	150	2,410	312	130	128	327	85	19
12	44	260	210	110	140	2,650	306	106	110	104	77	16
13	47	727	1,450	105	135	859	283	94	160	78	267	15
14	72	3,080	471	100	144	554	225	87	110	67	270	85
15	63	3,140	443	96	298	695	192	82	89	80	293	78
16	54	1,410	260	97	243	463	212	79	97	74	120	30
17	56	575	220	97	150	1,470	545	76	1,220	54	76	19
18	51	397	190	117	140	1,840	398	72	2,540	46	58	15
19	45	357	259	421	130	972	652	70	1,800	41	48	14
20	43	724	1,130	268	128	743	1,340	64	589	75	43	12
21	45	499	696	220	121	712	881	63	296	3,330	37	12
22	54	380	577	1,200	107	442	1,490	61	199	4,470	32	12
23	103	304	444	1,080	108	337	2,540	70	149	2,920	26	12
24	168	252	421	499	96	279	1,310	64	117	1,570	32	12
25	106	235	462	321	94	1,180	605	60	100	1,910	30	14
26	88	279	421	276	97	3,040	415	57	109	1,990	27	13
27	82	328	320	283	96	2,820	305	73	1,550	1,970	24	12
28	87	270	263	334	92	935	233	80	1,140	612	23	12
29	100	215	242	535	-----	561	184	83	378	305	22	14
30	95	195	609	310	-----	972	159	84	214	224	22	14
31	101	-----	2,170	247	-----	1,130	-----	81	-----	169	47	-----
TOTAL	3,691	28,076	14,934	12,708	7,746	29,131	17,447	3,439	17,747	22,815	2,659	639
MEAN	119	936	462	410	277	940	562	111	592	736	85.8	21.3
MAX	873	3,640	2,170	1,920	1,490	3,040	2,540	455	2,540	4,470	293	85
MIN	43	195	142	96	92	92	159	57	59	41	22	12
CFSM	.44	3.82	1.97	1.67	1.13	3.84	2.38	.45	2.42	3.00	.35	.09
IN.	.56	4.26	2.27	1.93	1.18	4.42	2.65	.52	2.69	3.46	.40	.10

CAL YR 1972 TOTAL 101,697.8 MEAN 278 MAX 3,640 MIN 7.3 CFSM 1.13 IN 15.44
WTR YR 1973 TOTAL 161,032.0 MEAN 441 MAX 4,470 MIN 12 CFSM 1.80 IN 24.45

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	1500	14.61	3,720	04-23	1000	12.77	2,640
11-15	0400	13.98	3,340	06-06	0500	12.57	2,540
03-12	0700	13.27	2,910	06-18	1900	12.93	2,720
03-26	2100	13.90	3,290	07-22	0600	16.12	4,620

03358000 Mill Creek near Cataract, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIMENT DIS- CHARGE (T/DAY)
NOV. 15...	1200	3140	79	670

WABASH RIVER BASIN

03358900 Cagles Mill Lake near Manhattan, Ind.

LOCATION.—Lat 39°29'14", long 86°55'02", in NE 1/4 NW 1/4 sec.13, T.12 N., R.5 W., Putnam County, in discharge tower of reservoir on Mill Creek, 1.5 miles (2.4 km) upstream from Deer Creek, 2.8 miles (4.5 km) above mouth, and 5.8 miles (9.3 km) south of Manhattan.

DRAINAGE AREA.—293 sq mi (759 sq km).

PERIOD OF RECORD.—July 1953 to current year. Prior to September 1970, published as Cagles Mill "Reservoir".

GAGE.—Water-stage recorder. Datum of gage is 581.83 ft (177.342 m) above mean sea level (levels of Corps of Engineers).

EXTREMES.—Current year: Maximum contents, 86,370 acre-ft (106 cu hm) Apr. 1, elevation, 665.40 ft (202.814 m); minimum, 27,140 acre-ft (33.5 cu hm) Oct. 28, 29, elevation, 636.02 ft (193.859 m).

Period of record: Maximum contents, 127,760 acre-ft (158 cu hm) May 15, 1961, elevation, 679.30 ft (207.051 m); minimum, 26,370 acre-ft (32.5 cu hm) Dec. 5, 1968, elevation, 635.46 ft (193.688 m). Pool lowered to elevation, 597.57 ft (182.139 m) Oct. 23, 1971 (contents, dry) due to drainage of lake to kill fish.

REMARKS.—Reservoir is formed by earth and rock-fill dam. Releases normally controlled by three gates, 5 ft (1.5 m) wide and 10 ft (3.0 m) high, in 12 ft (3.7 m) by 12 ft (3.7 m) concrete-lined tunnel 496 ft (151.2 m) long through right abutment. Minimum design capacity is 27,110 acre-ft (33.4 cu hm), elevation, 636 ft (193.9 m). Capacity at uncontrolled spillway elevation, 704 ft (214.6 m) is 228,000 acre-ft (218 cu hm). Reservoir is used for flood control and recreation. Reservoir put in operation on July 6, 1953.

COOPERATION.—Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	636.78	28,220	-
Oct. 31.....	636.09	27,240	-980
Nov. 30.....	644.55	40,670	+13,430
Dec. 31.....	640.09	33,200	-7,470
Calendar year 1972.....	-	-	-1,850
Jan. 31.....	636.16	27,340	-5,860
Feb. 28.....	636.12	27,280	-60
Mar. 31.....	665.03	85,400	+58,120
Apr. 30.....	654.27	59,950	-25,450
May 31.....	636.10	27,250	-32,700
June 30.....	637.59	29,400	+2,150
July 31.....	653.78	58,890	+29,490
Aug. 31.....	636.20	27,400	-31,490
Sept. 30.....	636.13	27,300	-100
Water year 1973.....			-920

LOCATION.—Lat 39°29'22", long 86°55'50", in SW 1/4 SE 1/4 sec.11, T.12 N., R.5 W., Putnam County, on left bank 200 ft (61 m) downstream from Cagles Mill, 0.8 mile (1.3 km) downstream from Cagles Mill Lake, 0.8 mile (1.3 km) upstream from Deer Creek, and 5.8 miles (9.3 km) south of Manhattan.

PERIOD OF RECORD.--May to September 1931 (fragmentary), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

AVERAGE DISCHARGE.—35 years (1938 to current year), 287 cfs (8.128 cu m/s), 13.26 in/yr (337 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,440 cfs (69.1 cu m/s) Apr. 15, gage height, 7.70 ft (2.347 m); maximum gage height, 12.10 ft (3.688 m) Nov. 2, backwater from Deer Creek; minimum daily discharge, 12 cfs (0.34 cu m/s) Sept. 7.
Period of record: Maximum discharge, 8,960 cfs (254 cu m/s) Jan. 5, 1950, gage height, 18.38 ft (5.602 m); no flow Aug. 7, 1953.

REVISIONS (WATER YEARS).—WSP 1335: 1940-41. WSP 2109: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	300	2,030	118	384	144	1,170	178	97	967	1,630	35
2	294	156	1,970	120	190	106	1,090	180	84	397	1,680	54
3	512	122	1,730	126	118	142	1,540	1,150	89	100	1,780	63
4	219	122	618	128	118	158	1,820	1,950	108	102	1,740	28
5	354	122	156	132	590	185	1,790	2,000	126	582	1,710	13
6	516	614	210	136	1,410	429	1,850	2,090	130	646	1,750	13
7	512	1,230	432	140	1,730	506	1,980	2,100	134	312	1,830	12
8	363	509	626	146	1,350	506	1,960	1,270	136	154	1,780	13
9	100	758	219	1,010	542	513	1,930	1,660	136	100	1,460	13
10	62	1,370	106	1,840	225	578	1,910	1,800	136	100	1,110	13
11	20	1,340	108	1,900	219	225	1,880	1,760	922	258	918	13
12	50	1,710	108	1,950	219	130	1,850	1,710	1,760	276	276	13
13	94	766	118	1,480	219	130	1,930	1,150	1,800	114	240	13
14	98	120	118	650	219	132	2,130	443	1,750	73	312	13
15	98	104	118	582	219	132	2,300	163	1,120	54	312	48
16	74	106	124	279	294	136	2,160	106	315	53	234	64
17	31	108	794	158	330	120	1,510	106	104	63	90	63
18	29	108	1,780	160	279	116	1,220	71	108	53	60	45
19	37	110	1,770	279	160	116	654	54	606	36	35	28
20	39	108	1,490	330	160	118	160	90	1,070	102	35	14
21	39	110	1,140	330	160	118	154	102	1,630	64	35	14
22	39	582	1,120	913	160	120	156	104	1,780	48	35	14
23	74	1,530	940	1,370	160	120	172	70	1,580	89	35	14
24	160	1,840	481	1,110	160	122	173	58	499	922	35	14
25	136	1,810	330	562	160	122	173	82	213	1,080	35	29
26	97	1,790	454	354	160	112	173	90	124	252	35	28
27	76	1,770	506	315	160	108	175	90	100	94	35	14
28	51	1,880	456	315	160	108	175	90	110	891	35	14
29	81	1,910	354	634	-----	110	175	102	963	1,510	28	15
30	98	2,020	309	550	-----	110	178	108	1,540	1,410	14	14
31	154	-----	120	312	-----	786	-----	106	-----	1,490	28	-----
TOTAL	4,605	25,125	20,437	18,429	10,255	6,558	34,538	21,033	19,270	12,392	19,332	741
MEAN	149	838	672	594	366	212	1,151	678	642	400	624	24.7
MAX	516	2,020	2,030	1,950	1,730	786	2,300	2,100	1,800	1,510	1,830	64
MIN	20	104	106	118	118	106	154	54	84	36	14	12

CAL YR 1972	TOTAL 114,396.3	MEAN 313	MAX 2,030	MIN 2.8
WTR YR 1973	TOTAL 193,115.0	MEAN 529	MAX 2,300	MIN 12

03360000 Eel River at Bowling Green, Ind.

LOCATION.—Lat 39°23'02", long 87°01'12", in NE 1/4 NE 1/4 sec.24, T.11 N., R.6 W., Clay County, on left bank 500 ft (152 m) downstream from bridge on State Highway 46 at Bowling Green, and 0.5 mile (0.8 km) downstream from Jordan Creek.

DRAINAGE AREA.—830 sq mi (2,150 sq km).

PERIOD OF RECORD.—January 1931 to current year. Prior to October 1934, published as "near Centerpoint".

GAGE.—Water-stage recorder. Datum of gage is 548.02 ft (167.036 m) above mean sea level (levels by Corps of Engineers). See WSP 1725 for history of changes prior to Dec. 1, 1949.

AVERAGE DISCHARGE.—42 years, 839 cfs (23.76 cu m/s), 13.73 in/yr (349 mm/yr).

EXTREMES.—Current year: Maximum discharge, 13,400 cfs (379 cu m/s) July 21, gage height, 19.77 ft (6.026 m); minimum daily, 82 cfs (2.32 cu m/s) Sept. 23.

Period of record: Maximum discharge, 34,000 cfs (963 cu m/s) Jan. 4, 1950, gage height, 23.53 ft (7.172 m); minimum daily, 11 cfs (0.31 cu m/s) Oct. 7, 8, 1954.

Maximum stage known, about 30.0 ft (9.14 m) in 1875, present datum, from information by Corps of Engineers.

REMARKS.—Records fair. Flow regulated by Cagles Mill Lake (See sta 03358900).

REVISIONS (WATER YEARS).—WSP 893: 1935, 1937-39. WSP 973: 1937-38, 1939(M). WSP 1335: 1931(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,030	980	2,600	2,600	1,090	409	3,660	864	390	1,960	2,390	300
2	678	5,920	2,510	1,800	4,080	381	3,110	867	327	1,070	2,150	228
3	524	8,680	2,410	1,100	3,430	366	2,760	1,200	381	640	2,220	215
4	440	5,130	1,810	1,400	1,960	375	3,000	2,380	668	1,280	2,160	194
5	900	1,970	776	2,300	1,490	800	2,870	2,470	3,740	1,400	2,110	146
6	1,400	1,490	1,250	1,300	2,270	1,400	2,720	2,480	2,000	1,480	2,070	136
7	1,100	2,260	1,490	1,050	2,290	1,380	2,800	2,570	1,210	944	2,190	128
8	800	2,660	1,460	895	2,430	1,460	2,870	2,230	832	661	2,140	122
9	560	1,510	1,470	1,010	1,260	1,480	2,870	2,170	650	507	2,340	124
10	460	2,250	884	2,280	730	3,040	2,870	2,350	549	528	1,950	128
11	380	2,160	710	2,300	654	5,230	2,830	2,260	654	790	1,770	122
12	400	2,120	1,000	2,360	615	5,070	2,760	2,180	1,930	668	871	112
13	480	2,930	3,500	2,270	590	2,110	2,730	1,950	2,160	489	955	106
14	420	5,140	2,500	1,300	590	1,560	2,780	1,020	2,160	348	1,160	122
15	380	3,790	1,800	1,050	825	2,140	2,900	650	1,990	357	1,410	142
16	350	1,870	1,500	873	860	1,700	3,050	517	1,020	300	1,070	200
17	310	1,410	1,100	636	758	3,810	3,530	475	2,360	280	675	176
18	280	1,150	2,500	657	685	4,010	2,790	430	4,470	260	514	156
19	260	1,060	2,400	1,020	566	2,430	2,460	369	2,060	228	405	124
20	240	1,480	2,300	1,040	552	2,250	2,820	363	2,220	426	345	103
21	220	1,260	2,000	940	552	2,090	2,240	369	2,150	10,100	303	95
22	250	1,210	1,800	1,990	552	1,500	2,430	354	2,380	9,140	270	91
23	330	1,870	1,600	2,880	478	1,260	4,430	336	2,240	2,300	243	82
24	480	2,460	1,450	2,450	475	1,120	2,680	294	1,500	1,920	225	88
25	450	2,420	1,400	1,560	458	1,500	1,750	294	647	3,710	213	110
26	400	2,480	1,300	1,100	450	5,830	1,420	306	710	2,660	200	138
27	360	2,620	1,200	1,010	444	4,700	1,210	318	3,600	1,540	188	103
28	340	2,480	1,100	1,090	429	2,370	1,080	570	3,280	1,340	176	88
29	320	2,550	960	1,450	-----	1,780	972	559	1,580	2,180	164	88
30	310	2,500	1,700	1,550	-----	2,810	895	514	2,270	2,070	188	100
31	300	-----	3,700	1,030	-----	2,090	-----	468	-----	2,030	542	-----
TOTAL	15,152	7,810	54,180	46,291	31,563	68,451	77,287	34,177	52,128	53,606	33,607	4,067
MEAN	489	2,594	1,748	1,493	1,127	2,208	2,576	1,102	1,738	1,729	1,084	136
MAX	1,400	8,680	3,700	2,880	4,080	5,830	4,430	2,570	4,470	10,100	2,390	300
MIN	220	980	710	636	429	366	895	294	327	228	164	82
CFSM	.59	3.13	2.11	1.80	1.36	2.66	3.10	1.33	2.09	2.08	1.31	.16
IN.	.68	3.49	2.43	2.07	1.41	3.07	3.46	1.53	2.34	2.40	1.51	.18

CAL YR 1972 TOTAL 341,279 MEAN 932 MAX 8,680 MIN 32 CFSM 1.12 IN 15.30
WTR YR 1973 TOTAL 548,319 MEAN 1,502 MAX 10,100 MIN 82 CFSM 1.81 IN 24.58

03360500 White River at Newberry, Ind.

LOCATION.—Lat 38°55'42", long 87°01'00", in NE 1/4 NE 1/4 sec.25, T.6 N., R.6 W., Greene County, on right bank 500 ft (152 m) upstream from bridge on State Highway 57 at Newberry, 2.3 miles (3.7 km) downstream from Doans Creek, and at mile 118.0 (189.9 km).

DRAINAGE AREA.—4,688 sq mi (12,142 sq km).

PERIOD OF RECORD.—September 1928 to current year. Prior to October 1948, published as West Fork White River at Newberry.

GAGE.—Water-stage recorder. Datum of gage is 465.59 ft (141.912 m) above mean sea level. Prior to Oct. 21, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—45 years, 4,557 cfs (129.1 cu m/s), 13.20 in/yr (335 mm/yr).

EXTREMES.—Current year: Maximum discharge, 25,500 cfs (722 cu m/s) Apr. 24, gage height, 17.43 ft (5.313 m); minimum daily, 1,040 cfs (29.5 cu m/s) Sept. 30.

Period of record: Maximum discharge, 76,900 cfs (2,180 cu m/s) May 21, 1943, gage height, 24.19 ft (7.373 m); minimum daily, 200 cfs (5.66 cu m/s) Oct. 1, 1941.

Maximum stage since at least 1875, 27.5 ft (8.38 m) Mar. 27, 1913, from floodmarks by State Highway Department of Indiana, discharge, 130,000 cfs (3,680 cu m/s).

REMARKS.—Records good. Flow slightly regulated by upstream reservoirs.

REVISIONS (WATER YEARS).—WSP 873: 1937(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,070	1,700	8,000	10,500	6,850	3,110	20,400	6,860	3,070	8,270	5,290	1,850
2	5,460	3,500	7,800	12,500	8,720	3,020	18,900	6,470	2,850	6,880	5,020	1,890
3	4,940	17,000	7,400	12,000	11,000	3,110	18,200	6,060	3,040	5,060	4,670	1,670
4	4,500	24,000	7,000	9,700	12,700	3,240	17,200	5,830	2,960	4,180	4,390	1,560
5	5,390	23,000	6,000	12,500	12,800	4,970	15,600	6,420	6,420	4,230	4,130	1,490
6	5,270	21,000	4,500	15,000	11,100	5,380	13,500	6,350	11,700	4,840	3,920	1,410
7	4,660	18,000	6,000	12,500	9,740	5,120	11,800	6,070	14,400	4,570	3,740	1,340
8	3,920	15,000	9,000	10,500	8,960	5,700	11,200	6,960	14,400	3,700	3,700	1,310
9	3,420	12,500	11,000	7,500	8,150	6,470	11,000	7,200	14,200	3,140	3,620	1,290
10	2,860	10,000	14,000	5,990	6,830	11,400	10,600	6,520	13,400	3,130	3,960	1,290
11	2,390	11,000	12,500	6,350	5,560	15,500	10,200	6,320	11,600	3,940	3,820	1,290
12	2,160	11,000	9,000	6,060	4,970	19,100	9,820	5,940	7,730	3,230	3,500	1,250
13	2,060	9,500	7,500	5,740	4,650	20,000	9,280	5,580	7,070	2,700	2,990	1,220
14	2,100	11,000	13,500	5,480	4,540	21,200	8,830	5,200	6,600	2,410	4,350	1,190
15	2,230	21,000	15,000	4,670	5,220	21,300	8,410	4,240	6,160	2,180	6,200	1,240
16	2,220	24,000	14,500	4,160	5,480	19,000	8,270	3,650	6,310	2,030	6,760	1,760
17	2,070	25,000	13,500	4,010	5,290	18,500	9,300	3,320	5,470	1,960	8,090	1,700
18	1,880	24,000	9,300	3,770	4,850	19,900	11,600	3,110	6,720	1,850	8,740	1,680
19	1,740	22,000	8,900	4,680	4,610	20,100	13,600	2,970	10,200	1,760	7,280	1,490
20	1,600	17,000	8,000	5,040	4,380	20,800	16,400	2,840	10,000	1,710	4,970	1,350
21	1,520	12,500	8,800	4,810	4,170	21,500	17,300	2,850	8,570	3,450	3,890	1,260
22	1,490	11,000	9,000	7,120	3,990	20,500	18,100	2,930	6,740	10,500	3,310	1,190
23	1,450	10,000	8,900	8,980	3,820	17,400	22,500	2,840	5,890	14,200	2,860	1,160
24	1,700	10,500	8,800	10,300	3,660	12,600	25,200	2,750	5,290	14,900	2,710	1,140
25	1,900	9,500	7,800	10,400	3,520	11,000	25,100	2,650	4,510	13,200	2,540	1,190
26	2,000	8,700	7,100	9,170	3,390	16,300	23,500	2,570	3,620	13,300	2,330	1,130
27	1,950	8,400	6,900	7,480	3,310	19,000	20,400	2,630	4,870	13,400	2,170	1,140
28	1,900	8,500	6,800	6,620	3,200	21,100	15,400	2,790	10,400	11,800	2,040	1,120
29	1,850	8,200	6,400	7,210	-----	22,800	9,920	3,090	11,400	7,520	1,920	1,080
30	1,800	8,100	5,900	7,300	-----	22,300	7,870	3,140	9,500	6,490	1,800	1,040
31	1,750	-----	6,600	7,220	-----	21,100	-----	3,140	-----	5,750	1,730	-----
TOTAL	87,250	416,600	275,400	245,260	175,460	452,520	439,400	139,290	235,090	186,280	126,440	40,720
MEAN	2,815	13,890	8,884	7,912	6,266	14,600	14,650	4,493	7,436	6,009	4,079	1,357
MAX	7,070	25,000	15,000	15,000	12,800	22,800	25,200	7,200	14,400	14,900	8,740	1,890
MIN	1,450	1,700	4,500	3,770	3,200	3,020	7,870	2,570	2,850	1,710	1,730	1,040
CFSM	.60	2.96	1.90	1.69	1.34	3.11	3.13	.96	1.67	1.28	.87	.29
IN.	.69	3.31	2.19	1.95	1.39	3.59	3.49	1.11	1.87	1.48	1.00	.32
CAL YR 1972	TOTAL 2,013,477	MEAN 5,502	MAX 27,600	MIN 695	CFSM 1.17	IN 15.98						
WTR YR 1973	TOTAL 2,819,710	MEAN 7,725	MAX 25,200	MIN 1,040	CFSM 1.65	IN 22.37						

NOTE.—No gage-height record Oct. 23 to Jan. 9.

03361000 Big Blue River at Carthage, Ind.

LOCATION.—Lat 39°44'38", long 85°34'33", in SW 1/4 SW 1/4 sec.18, T.15 N., R.9 E., Rush County, on right bank 300 ft (91 m) upstream from highway bridge, 0.5 mile (0.8 km) northwest of Carthage, and 2.2 miles (3.5 km) downstream from Three Mile Creek.

DRAINAGE AREA.—184 sq mi (477 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: October 1950 to current year. Prior to October 1961, published as Blue River at Carthage, Ind. CHEMICAL ANALYSES: July 1973 to current year.

GAGE.—Water-stage recorder. Datum of gage is 859.33-ft (261.924 m) above mean sea level. Prior to July 19, 1951, nonrecording gage at site 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.—23 years, 195 cfs (5.522 cu m/s), 14.39 in/yr (366 mm/yr).

EXTREMES.—Current year: Maximum discharge, 6,090 cfs (172 cu m/s) June 27, gage height, 10.99 ft (3.350 m); minimum daily, 61 cfs (1.73 cu m/s) Sept. 20, 21.
Period of record: Maximum discharge, 12,900 cfs (365 cu m/s) Mar. 4, 1963, gage height, 14.62 ft (4.456 m), from floodmarks, from rating curve extended above 6,200 cfs (176 cu m/s); minimum daily, 18 cfs (0.51 cu m/s) Sept. 18, 1955.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	313	235	325	274	152	586	246	137	335	130	73
2	131	1,470	216	257	549	156	458	246	129	275	122	72
3	107	1,370	205	262	485	176	389	237	127	242	116	70
4	121	615	203	695	356	183	389	216	308	529	109	70
5	139	453	198	470	301	223	408	202	1,390	462	104	69
6	127	313	672	316	264	223	340	194	3,200	285	101	69
7	109	486	537	255	237	245	307	190	1,840	244	98	67
8	98	1,190	489	220	234	252	307	235	719	214	94	67
9	91	660	615	200	209	379	288	207	486	196	99	70
10	85	486	489	180	196	1,190	307	191	366	178	108	69
11	93	340	345	175	184	1,750	319	219	298	163	97	68
12	121	275	330	170	178	1,350	345	182	270	152	289	67
13	107	492	1,010	168	177	675	344	171	248	145	196	64
14	100	2,330	615	167	201	581	290	166	214	141	148	82
15	95	1,330	431	167	401	582	262	163	201	139	169	73
16	90	675	320	163	320	457	270	160	196	127	126	65
17	86	498	263	165	237	940	468	156	399	121	110	63
18	83	393	248	171	213	786	693	151	262	117	102	64
19	83	438	277	186	197	746	597	170	221	113	97	62
20	80	504	575	170	193	592	659	168	342	168	98	61
21	80	402	486	168	184	448	483	150	244	898	93	61
22	80	338	459	391	175	368	965	146	196	341	88	62
23	88	290	394	582	172	322	1,550	147	173	224	85	69
24	85	258	372	331	162	293	882	142	161	406	96	62
25	82	249	365	254	158	414	604	143	152	475	90	63
26	80	278	338	233	159	1,190	455	140	305	411	84	63
27	80	300	295	251	156	840	365	149	4,130	323	81	62
28	86	315	262	313	152	546	313	144	1,960	224	79	62
29	85	263	239	403	-----	463	275	150	674	173	78	67
30	83	246	261	276	-----	541	257	183	445	147	76	65
31	85	-----	395	234	-----	524	-----	151	-----	137	74	-----
TOTAL	3,049	17,570	12,139	8,318	6,724	17,587	14,175	5,515	19,793	8,105	3,437	2,001
MEAN	98.4	586	392	268	240	567	473	178	660	261	111	66.7
MAX	189	2,330	1,010	695	549	1,750	1,550	246	4,130	898	289	82
MIN	80	246	198	163	152	152	257	140	127	113	74	61
CFSM	.53	3.18	2.13	1.46	1.30	3.08	2.57	.97	3.59	1.42	.60	.36
IN.	.62	3.55	2.45	1.68	1.36	3.56	2.87	1.11	4.00	1.64	.69	.40

CAL YR 1972 TOTAL 85,095 MEAN 233 MAX 2,330 MIN 49 CFSM 1.27 IN 17.20
WTR YR 1973 TOTAL 118,413 MEAN 324 MAX 4,130 MIN 61 CFSM 1.76 IN 23.94

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	2200	7.27	2,010	06-06	0800	9.23	3,680
11-14	1200	8.34	2,780	06-27	1400	10.99	6,090
03-11	2100	7.93	2,450				

03361000 Big Blue River at Carthage, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM
JULY 19...	0900	102	7.7	260	110	59	57	96	29	16	.4	9
AUG. 14...	1430	154	10	310	70	79	79	88	29	14	.3	8
SEP. 13...	1500	67	11	180	30	24	12	97	34	21	.5	11

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
JULY 19...	2.0	348	0	52	26	.5	418	409	115	.57	360	74
AUG. 14...	2.7	342	0	47	22	.4	404	394	168	.55	340	60
SEP. 13...	2.5	373	0	55	30	.4	492	448	89.0	.67	380	74

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	AIR TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORAL UNITS)	DIS- SOLVED NITRATE (NO ₃) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	CARBON DIOXIDE (CO ₂) (MG/L)	ALKA- LITY AS CaCO ₃ (MG/L)
JULY 19...	660	7.3	20.0	26.0	4	7.9	1.8	.15	.04	28	285
AUG. 14...	700	7.3	21.5	23.0	8	12	2.8	.66	.22	27	281
SEP. 13...	650	8.6	18.0	23.0	2	14	3.0	.53	.17	1.5	306

03361500 Big Blue River at Shelbyville, Ind.

LOCATION.--Lat 39°31'45", long 85°46'55", in SE 1/4 SE 1/4 sec.31, T.13 N., R.7 E., Shelby County, on left bank 0.2 mile (0.3 km) downstream from bridge on U.S. Highway 421 at Shelbyville, and 0.6 mile (1.0 km) downstream from Little Blue River.

DRAINAGE AREA.--421 sq mi (1,090 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: September 1943 to current year. Prior to October 1961, published as Blue River at Shelbyville.
SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 737.67 ft (224.842 m) above mean sea level. Prior to Oct. 1, 1953, nonrecording gage at bridge 0.2 mile (0.3 km) upstream at datum 3.5 ft (1.07 m) higher.

AVERAGE DISCHARGE.--30 years, 457 cfs (12.94 cu m/s), 14.74 in/yr (374 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,410 cfs (182 cu m/s) June 28, gage height, 13.51 ft (4.118 m); minimum daily, 95 cfs (2.69 cu m/s) Sept. 21.

Period of record: Maximum discharge, 15,800 cfs (447 cu m/s) Mar. 5, 1963, gage height, 17.70 ft (5.395 m); minimum daily, 32 cfs (0.91 cu m/s) Oct. 2, 1953.

Flood in March 1913 reached a stage of about 20.2 ft (6.16 m), from floodmarks.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1505: 1944. WSP 1909: 1959(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	325	587	757	562	311	1,340	562	311	830	320	128
2	243	1,940	516	606	995	314	1,110	536	284	670	281	126
3	188	3,370	469	558	1,040	335	941	525	274	562	256	118
4	173	1,790	442	1,090	869	368	871	470	390	550	237	114
5	200	1,150	434	1,050	734	410	941	431	2,020	1,330	219	114
6	217	862	1,330	775	638	479	855	409	3,560	698	208	113
7	198	851	1,640	606	558	503	768	396	4,680	522	197	109
8	172	2,350	1,290	480	530	614	747	470	2,780	437	188	107
9	154	1,750	1,630	420	475	618	707	524	1,100	392	184	111
10	141	1,220	1,310	380	434	2,180	702	441	830	359	199	111
11	136	948	1,020	370	401	3,530	712	432	670	326	188	109
12	150	762	862	360	386	4,610	729	398	582	297	368	107
13	164	993	2,070	350	383	2,490	743	363	538	278	830	104
14	156	4,140	1,600	347	384	1,440	654	344	444	266	472	114
15	148	5,150	1,050	341	710	1,430	586	331	407	261	374	128
16	140	2,490	820	326	813	1,210	562	321	506	248	300	113
17	132	1,380	618	323	594	1,800	825	314	785	234	241	104
18	129	1,080	606	332	518	2,050	1,330	302	813	223	212	100
19	123	963	586	359	461	1,690	1,380	311	546	217	197	98
20	117	1,300	1,070	350	434	1,390	1,420	478	670	232	206	96
21	114	1,120	1,100	338	413	1,140	1,230	374	578	1,820	199	95
22	114	933	1,030	602	389	940	1,560	326	437	1,930	175	96
23	120	795	939	1,100	380	818	3,680	314	371	1,050	166	100
24	125	685	862	848	356	735	3,070	301	332	872	164	104
25	120	630	838	634	338	776	1,610	296	306	1,380	171	100
26	119	706	742	542	335	1,880	1,200	295	317	1,970	160	100
27	121	797	710	574	329	2,330	970	302	2,130	1,280	152	102
28	124	795	622	682	317	1,430	808	326	5,200	855	146	100
29	129	702	546	873	-----	1,130	684	311	3,420	562	141	100
30	128	624	554	702	-----	1,160	608	383	1,100	416	139	104
31	135	-----	730	566	-----	1,120	-----	362	-----	356	133	-----
TOTAL	4,793	42,701	28,673	17,641	14,781	41,231	33,343	11,948	36,381	21,423	7,423	3,225
MEAN	155	1,423	925	564	528	1,330	1,111	385	1,213	691	239	108
MAX	363	5,150	2,070	1,100	1,040	4,610	3,680	562	5,200	1,970	830	128
MIN	114	335	434	323	317	311	562	295	274	217	133	95
CFSM	.37	3.38	2.20	1.35	1.25	3.16	2.64	.91	2.88	1.64	.57	.26
IN.	.42	3.77	2.53	1.56	1.31	3.64	2.95	1.06	3.21	1.89	.66	.28

CAL YR 1972 TOTAL 190,297 MEAN 520 MAX 5,150 MIN 60 CFSM 1.24 IN 16.81
WTR YR 1973 TOTAL 263,563 MEAN 722 MAX 5,200 MIN 95 CFSM 1.72 IN 23.29

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	1400	10.52	3,490	04-23	2200	11.15	4,040
11-15	1000	12.44	5,240	06-07	1600	12.05	4,850
03-12	1000	11.86	4,670	06-28	2000	13.51	6,410

03361500 Big Blue River at Shelbyville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
OCT.					
04...	1400	16.0	170	84	39
NOV.					
17...	1630	6.0	1320	52	185
JAN.					
03...	1540	--	709	57	109
MAR.					
03...	1400	9.0	340	44	40
APR.					
09...	1400	--	712	53	102
MAY					
07...	1300	15.0	389	18	19
JUNE					
11...	1330	22.0	667	107	193
JULY					
23...	1230	--	1070	96	277
AUG.					
24...	1800	--	166	54	24

03361650 Sugar Creek at New Palestine, Ind.

LOCATION.--Lat 39°42'51", long 85°53'08", in SE 1/4 SW 1/4 sec.29, T.15 N., R.6 E., Hancock County, on left bank 10 ft (3 m) downstream from bridge on County Road 450 West, 0.5 mile (0.8 km) south of New Palestine, 3 miles (5 km) upstream from Little Sugar Creek, and 37.3 miles (60.0 km) from mouth.

DRAINAGE AREA.--93.9 sq mi (243.2 sq km).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 786.00 ft (239.573 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 104 cfs (2.945 cu m/s), 15.04 in/yr (382 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,210 cfs (34.3 cu m/s) Nov. 14, gage height, 7.73 ft (2.356 m); minimum daily, 12 cfs (0.34 cu m/s) Sept. 27-29.

Period of record: Maximum discharge, 1,740 cfs (49.3 cu m/s) Feb. 2, 1968, gage height, 9.34 ft (2.847 m); minimum daily, 3.2 cfs (0.091 cu m/s) Oct. 7, 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	112	96	208	147	54	429	83	50	97	42	18
2	81	721	85	147	372	54	344	78	44	76	37	17
3	55	724	75	156	384	57	246	74	44	64	33	15
4	41	697	69	395	269	61	210	66	135	165	30	14
5	35	348	65	348	197	69	189	61	599	175	27	14
6	33	224	327	203	159	74	162	58	772	127	25	15
7	30	221	432	141	130	89	144	56	688	76	22	14
8	28	338	323	111	119	104	132	70	482	58	20	14
9	26	340	285	92	103	162	122	71	240	48	24	15
10	22	235	244	84	90	386	123	63	165	43	29	15
11	22	181	184	78	86	733	115	86	122	38	24	14
12	26	145	171	74	80	666	113	67	148	34	159	14
13	27	313	444	70	72	550	112	57	553	31	260	13
14	33	1,070	456	65	85	327	104	52	221	33	258	42
15	32	927	285	61	157	395	97	48	139	31	372	30
16	29	853	189	56	177	334	103	45	107	26	222	19
17	26	365	136	54	129	545	156	44	269	24	117	17
18	23	246	120	56	106	593	163	42	355	22	77	15
19	22	206	113	61	91	509	168	67	201	21	58	15
20	22	246	194	61	83	405	248	87	139	44	51	17
21	21	217	206	62	78	294	221	69	103	422	42	16
22	20	171	175	181	72	217	336	54	83	156	36	15
23	22	139	154	280	69	172	561	49	70	96	31	15
24	22	117	142	228	65	147	537	45	61	108	29	14
25	22	107	153	145	60	201	311	43	55	130	29	14
26	21	113	156	116	58	593	208	41	57	144	29	13
27	22	126	138	119	57	596	159	42	221	130	25	12
28	22	126	117	153	55	397	124	47	376	156	22	12
29	22	117	103	192	-----	280	102	57	309	90	20	12
30	22	104	133	160	-----	323	90	59	139	61	20	13
31	23	-----	235	120	-----	361	-----	59	-----	49	21	-----
TOTAL	975	9,849	6,005	4,277	3,550	9,748	6,129	1,840	6,947	2,775	2,191	483
MEAN	31.5	328	194	138	127	314	204	59.4	232	89.5	70.7	16.1
MAX	123	1,070	456	395	384	733	561	87	772	422	372	42
MIN	20	104	65	54	55	54	90	41	44	21	20	12
CFSM	.34	3.49	2.07	1.47	1.35	3.34	2.17	.63	2.47	.95	.75	.17
IN.	.39	3.90	2.38	1.69	1.41	3.86	2.43	.73	2.75	1.10	.87	.19

CAL YR 1972 TOTAL 39,749.7 MEAN 109 MAX 1,070 MIN 4.8 CFSM 1.16 IN 15.75
WTR YR 1973 TOTAL 54,769.0 MEAN 150 MAX 1,070 MIN 12 CFSM 1.60 IN 21.70

PEAK DISCHARGE (BASE, 950 CFS).--Nov. 14 (0900) 1,210 cfs (7.73 ft).

03361850 Buck Creek at Acton, Ind.

LOCATION.--Lat 39°39'25", long 85°57'27", in NW 1/4 SE 1/4 sec.15, T.14 N., R.5 E., Marion County, on left bank 30 ft (9 m) downstream from McGregor Road bridge, 0.5 mile (0.8 km) east of Acton, and 4.2 miles (6.8 km) upstream from mouth.

DRAINAGE AREA.--78.8 sq mi (204.1 sq km).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft (230.734 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 91.3 cfs (2.586 cu m/s), 15.73 in/yr (400 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,240 cfs (63.4 cu m/s) Nov. 14, gage height, 10.37 ft (3.161 m); minimum daily, 6.0 cfs (0.17 cu m/s) Sept. 7, 8, 21, 22.

Period of record: Maximum discharge, 5,300 cfs (150 cu m/s) July 20, 1969, gage height, 14.99 ft (4.569 m); minimum daily, 0.60 cfs (0.017 cu m/s) Oct. 1, 4, 1967.

REMARKS.--Records fair.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	287	74	191	162	39	478	54	27	36	20	7.0
2	60	1,510	63	117	445	41	285	52	22	30	17	6.8
3	41	807	57	152	333	44	189	49	27	27	15	6.6
4	34	335	55	779	202	47	163	41	478	87	13	6.4
5	43	201	55	305	149	56	145	35	1,480	170	12	6.2
6	37	142	535	144	117	58	122	33	1,140	60	11	6.1
7	29	182	260	94	95	72	106	33	525	40	10	6.0
8	24	321	222	73	80	76	101	67	242	30	9.0	6.0
9	19	180	291	60	68	176	96	56	150	23	18	8.0
10	16	137	180	52	58	504	105	41	104	21	120	11
11	16	116	117	45	54	942	92	43	78	19	60	9.0
12	26	95	127	39	50	456	98	37	68	17	23	7.0
13	22	419	629	35	48	239	83	31	68	15	70	6.5
14	20	1,940	255	34	90	219	73	28	49	16	50	90
15	17	684	150	33	311	318	67	25	41	15	250	20
16	16	333	99	32	191	199	80	25	41	14	100	11
17	15	209	76	32	125	843	194	24	316	12	60	9.0
18	13	149	56	33	90	523	173	22	127	11	40	7.4
19	12	167	76	36	76	387	213	26	87	10	25	6.8
20	11	296	210	38	74	255	275	67	79	9.5	18	6.4
21	11	176	147	50	67	176	175	36	56	800	15	6.0
22	11	134	129	250	60	132	525	28	43	300	13	6.0
23	13	107	103	371	57	107	655	27	35	85	12	13
24	14	91	103	173	46	94	311	24	30	100	25	10
25	13	87	121	115	43	312	184	22	27	110	20	6.5
26	12	109	116	101	44	1,210	129	21	29	130	15	7.2
27	12	121	93	111	41	518	101	26	157	90	13	8.0
28	13	104	80	156	39	276	79	43	125	60	10	7.0
29	15	85	72	208	-----	242	65	55	66	40	9.0	8.3
30	14	79	125	115	-----	355	59	49	46	23	8.0	10
31	14	-----	333	86	-----	425	-----	36	-----	25	7.5	-----
TOTAL	712	9,603	5,009	4,060	3,215	9,341	5,421	1,156	5,763	2,425.5	1,088.5	325.2
MEAN	23.0	320	162	131	115	301	181	37.3	192	78.2	35.1	10.8
MAX	99	1,940	629	779	445	1,210	655	67	1,480	800	250	90
MIN	11	79	55	32	39	39	59	21	22	9.5	7.5	6.0
CFSM	.29	4.06	2.06	1.66	1.46	3.82	2.30	.47	2.44	.99	.45	.14
IN.	.34	4.53	2.36	1.92	1.52	4.41	2.56	.55	2.72	1.15	.51	.15

CAL YR 1972 TOTAL 35,148.5
WTR YR 1973 TOTAL 48,119.2

MEAN 96.0
MEAN 132

MAX 1,940
MAX 1,940

MIN 4.4
MIN 6.0

CFSM 1.22
CFSM 1.68

IN 16.59
IN 22.72

PEAK DISCHARGE (BASE, 1,000 CFS)

NOTE.--No gage-height record
July 5 to Sept. 26

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1630	9.79	1,900	03-11	1330	8.05	1,220	04-22	2115	7.48	1,030
11-14	0915	10.37	2,240	03-17	1000	7.51	1,040	06-05	1115	9.29	1,680
01-04	0400	7.46	1,020	03-26	1230	8.44	1,350	07-21	unknown	8.69	1,440

03362000 Youngs Creek near Edinburg, Ind.

LOCATION.--Lat 39°25'08", long 86°00'18", in SE 1/4 SW 1/4 sec.5, T.11 N., R.5 E., Johnson County, on left bank on upstream side of highway bridge, 0.5 mile (0.8 km) southwest of Amity, 2 miles (3 km) upstream from mouth, and 5 miles (8 km) northwest of Edinburg.

DRAINAGE AREA.--107 sq mi (277 sq km).

PERIOD OF RECORD.--October 1942 to current year. Prior to December 1942 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 670.20 ft (204.277 m) above mean sea level. Prior to June 30, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 105 cfs (2.974 cu m/s), 13.33 in/yr (339 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,210 cfs (62.6 cu m/s) Nov. 15, gage height, 8.43 ft (2.569 m); minimum daily, 6.0 cfs (0.17 cu m/s) Sept. 30.

Period of record: Maximum discharge, 10,700 cfs (303 cu m/s) Jan. 27, 1952, gage height, 13.4 ft (4.08 m); minimum daily, 0.5 cfs (0.014 cu m/s) Sept. 29, Oct. 20, 21, 1953.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1944. WSP 1909: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	131	87	192	158	49	511	78	27	56	56	11
2	23	755	74	120	502	49	313	74	26	48	57	9.3
3	16	615	69	148	385	50	213	69	28	44	45	8.5
4	14	256	64	647	256	52	215	61	78	62	38	8.7
5	21	152	62	352	183	58	211	56	915	91	33	8.3
6	30	103	364	179	139	58	162	53	723	54	29	8.8
7	22	133	279	110	112	76	137	53	378	41	27	8.2
8	17	373	382	82	100	82	141	76	185	35	24	7.6
9	13	194	518	68	85	217	133	66	114	32	29	7.7
10	11	130	336	57	77	651	148	56	82	35	150	7.7
11	10	110	200	52	68	1,300	152	52	68	30	56	8.0
12	13	90	158	49	64	730	141	47	59	25	39	7.6
13	17	200	543	46	64	364	112	43	53	22	67	7.2
14	14	800	329	44	89	283	99	41	45	21	49	27
15	12	1,300	202	44	270	300	91	40	42	19	166	39
16	11	450	127	41	179	231	91	40	65	18	84	17
17	9.5	290	86	44	105	888	221	39	777	16	54	12
18	9.0	160	75	49	87	663	417	36	362	15	40	11
19	8.5	200	84	59	76	461	477	38	162	14	33	9.9
20	7.5	408	188	55	71	366	507	36	142	15	29	9.2
21	7.0	272	171	59	64	313	304	34	90	478	25	8.6
22	6.7	194	171	398	61	209	704	32	69	276	21	8.4
23	7.5	143	148	456	61	156	1,190	34	57	109	20	7.8
24	8.5	116	148	240	53	131	647	32	51	219	19	7.2
25	8.5	110	169	156	50	346	359	31	84	498	19	8.2
26	8.5	139	164	133	50	1,210	235	30	60	1,220	16	7.7
27	8.0	158	129	133	50	624	167	32	217	575	14	6.9
28	8.5	125	108	156	49	357	118	34	242	187	14	6.6
29	8.5	101	99	233	-----	270	97	34	104	106	13	6.3
30	8.0	95	127	135	-----	352	86	34	71	78	12	6.0
31	8.5	-----	260	103	-----	433	-----	31	-----	65	12	-----
TOTAL	400.7	8,303	5,921	4,640	3,508	11,329	8,399	1,412	5,376	4,504	1,290	307.4
MEAN	12.9	277	191	150	125	365	280	45.5	179	145	41.6	10.2
MAX	34	1,300	543	647	502	1,300	1,190	78	915	1,220	166	39
MIN	6.7	90	62	41	49	49	86	30	26	14	12	6.0
CFSM	.12	2.59	1.79	1.40	1.17	3.41	2.62	.43	1.67	1.36	.39	.10
IN.	.14	2.89	2.06	1.61	1.22	3.94	2.92	.49	1.87	1.57	.45	.11

CAL YR 1972 TOTAL 35,669.8 MEAN 97.5 MAX 1,930 MIN 2.7 CFSM .91 IN 12.40
WTR YR 1973 TOTAL 55,390.1 MEAN 152 MAX 1,300 MIN 6.0 CFSM 1.42 IN 19.26

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	unknown	8.43	2,210	03-26	1415	6.57	1,340
03-11	2000	7.24	1,590	07-26	0615	6.68	1,380

03362500 Sugar Creek near Edinburg, Ind.

LOCATION.—Lat 39°21'39", long 85°59'51", in SW 1/4 SE 1/4 sec.29, T.11 N., R.5 E., Johnson County, on left bank 50 ft (15 m) upstream from highway bridge in Camp Atterbury, 1.2 miles (1.9 km) upstream from confluence with Blue River, and 1.5 miles (2.4 km) northwest of Edinburg.

DRAINAGE AREA.—474 sq mi (1,228 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: October 1942 to current year. Prior to February 1943 monthly discharge only, published in WSP 1305.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 646.23 ft (196.971 m) above mean sea level. Prior to Oct. 1, 1952, nonrecording gage on downstream side of old highway bridge, 100 ft (30 m) downstream at same datum.

AVERAGE DISCHARGE.—31 years, 479 cfs (13.56 cu m/s), 13.72 in/yr (348 mm/yr).

EXTREMES.—Current year: Maximum discharge, 6,060 cfs (172 cu m/s) Nov. 15, gage height, 11.94 ft (3.639 m); minimum daily, 77 cfs (2.18 cu m/s) Sept. 29.

Period of record: Maximum discharge, 27,600 cfs (782 cu m/s) May 29, 1956, gage height, 18.38 ft (5.602 m); minimum daily, 9.2 cfs (0.26 cu m/s) Sept. 19, 1954.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	243	504	1,050	540	270	2,460	432	206	427	284	100
2	319	1,920	450	700	1,560	266	1,840	409	190	341	260	98
3	243	3,390	405	616	1,930	273	1,290	387	183	300	226	94
4	196	2,910	378	2,170	1,440	280	1,080	347	232	303	202	92
5	183	1,630	364	2,080	1,000	294	1,080	323	2,830	657	180	90
6	193	950	1,020	1,120	770	312	878	315	4,580	516	168	88
7	177	750	1,920	685	635	343	750	315	4,340	354	160	88
8	160	1,580	1,560	531	576	436	725	347	2,430	279	151	84
9	146	1,350	2,080	400	513	549	665	400	1,290	244	146	84
10	133	963	1,540	370	454	2,260	680	347	770	234	305	84
11	128	735	1,030	340	396	3,560	670	308	580	211	215	84
12	128	603	770	320	364	4,360	635	308	477	193	168	80
13	138	836	1,910	310	347	2,670	598	284	562	180	459	78
14	143	4,010	2,140	290	364	1,630	540	266	680	171	486	98
15	138	5,840	1,370	270	854	1,540	499	253	442	165	872	186
16	135	4,310	848	256	996	1,370	481	243	412	175	710	146
17	128	2,170	635	253	670	2,580	797	229	1,910	156	414	109
18	123	1,250	550	260	544	3,450	1,400	212	1,920	147	284	98
19	118	976	481	284	459	2,500	1,780	209	1,040	142	226	92
20	114	1,610	750	291	414	1,880	1,810	249	834	142	196	90
21	111	1,380	932	287	387	1,490	1,490	284	600	1,600	174	88
22	111	996	848	914	355	1,050	1,790	236	452	3,260	157	90
23	116	775	745	1,780	343	814	4,100	219	371	1,430	143	88
24	116	645	680	1,230	319	695	3,770	206	320	865	141	90
25	116	585	725	775	294	878	2,100	202	344	1,930	135	92
26	116	625	740	616	287	3,250	1,300	190	301	3,080	125	88
27	114	710	660	580	284	3,830	914	196	757	1,690	120	84
28	118	670	567	640	273	2,230	685	202	1,530	829	116	82
29	118	589	499	950	-----	1,450	544	222	1,120	580	109	77
30	120	535	540	750	-----	1,590	472	236	689	409	107	78
31	125	-----	989	580	-----	1,700	-----	222	-----	323	102	-----
TOTAL	4,756	45,536	28,630	21,698	17,368	49,800	37,823	8,598	32,392	21,333	7,541	2,820
MEAN	153	1,518	924	700	620	1,606	1,261	277	1,080	688	243	94.0
MAX	432	5,840	2,140	2,170	1,930	4,360	4,100	432	4,580	3,260	872	186
MIN	111	243	364	253	273	266	472	190	183	142	102	77
CFSM	.32	3.21	1.95	1.48	1.31	3.40	2.67	.59	2.28	1.45	.51	.20
IN.	.37	3.58	2.25	1.71	1.37	3.92	2.97	.68	2.55	1.68	.59	.22

CAL YR 1972 TOTAL 190,282 MEAN 520 MAX 5,840 MIN 58 CFSM 1.10 IN 14.97
WTR YR 1973 TOTAL 278,295 MEAN 762 MAX 5,840 MIN 77 CFSM 1.61 IN 21.89

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	1000	11.94	6,060	04-23	2300	10.51	4,590
03-12	0400	10.52	4,600	06-06	2100	10.88	4,920

03362500 Sugar Creek near Edinburg, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT. 02...	1540	16.0	304	44	36	--	--	--	--	--
NOV. 22...	1210	6.0	1010	26	71	--	--	--	--	--
MAR. 31...	1300	5.0	280	31	23	--	--	--	--	--
APR. 05...	1530	8.0	1090	53	156	--	--	--	--	--
MAY 10...	1230	--	331	48	43	--	--	--	--	--
JUNE 14...	1330	22.0	660	536	955	75	94	98	99	100
JULY 23...	1625	--	1070	95	274	--	--	--	--	--
AUG. 23...	1540	--	142	58	22	--	--	--	--	--

03363000 Driftwood River near Edinburg, Ind.

LOCATION.--Lat 39°20'21", long 85°59'11", in NW 1/4 SW 1/4 sec.4, T.10 N., R.5 E., Bartholomew County, on left bank just downstream from highway bridge, 0.8 mile (1.3 km) downstream from confluence of Blue River and Sugar Creek, and 1.5 miles (2.4 km) south-west of Edinburg.

DRAINAGE AREA.--1,060 sq mi (2,745 sq km).

PERIOD OF RECORD.--October 1940 to current year. Prior to July 1941 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 636.99 ft (194.155 m) above mean sea level. Prior to Oct. 7, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 1,121 cfs (31.75 cu m/s), 14.36 in/yr (365 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,000 cfs (312 cu m/s) Nov. 16, gage height, 13.18 ft (4.017 m); minimum daily, 226 cfs (6.40 cu m/s) Sept. 30.

Period of record: Maximum discharge, 40,500 cfs (1,147 cu m/s) Mar. 6, 1963, gage height, 16.97 ft (5.172 m); minimum daily, 38 cfs (1.08 cu m/s) Sept. 23, 1941.

Flood in March 1913 reached a stage of 20.3 ft (6.19 m).

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	858	340	1,290	2,100	1,480	727	4,440	1,340	640	2,040	1,030	316
2	691	1,280	1,190	1,670	2,660	716	4,120	1,240	575	1,510	914	304
3	530	5,020	1,090	1,370	3,730	727	3,210	1,170	540	1,240	820	293
4	440	6,220	1,020	2,830	3,240	760	2,640	1,100	585	1,150	727	290
5	408	3,650	974	4,250	2,480	815	2,420	996	3,660	1,970	655	283
6	436	2,160	1,690	3,100	2,030	903	2,490	914	7,270	2,180	600	279
7	400	1,790	3,940	2,430	1,680	996	2,190	870	8,420	1,370	560	272
8	360	3,200	3,470	1,800	1,500	1,190	2,030	886	7,310	1,090	520	265
9	330	3,920	4,140	1,400	1,300	1,350	1,930	1,040	4,710	925	492	269
10	300	2,870	3,760	1,100	1,100	3,640	1,850	996	2,610	831	665	269
11	293	2,100	2,760	996	1,020	6,320	1,820	892	1,930	749	615	265
12	293	1,670	2,090	942	950	8,280	1,770	853	1,560	675	520	258
13	305	2,170	3,020	908	942	7,770	1,730	809	4,480	615	1,190	255
14	310	5,520	4,920	864	948	4,820	1,650	754	1,660	570	1,470	272
15	300	9,390	3,570	820	1,590	3,950	1,520	705	1,240	535	1,540	380
16	290	9,460	2,470	793	2,330	3,700	1,410	675	1,190	535	1,490	356
17	275	4,990	1,900	760	2,020	4,470	1,710	640	2,520	492	1,040	290
18	265	3,080	1,600	760	1,530	6,340	2,750	600	3,780	456	782	269
19	255	2,520	1,330	809	1,270	5,520	3,900	585	2,540	434	640	258
20	245	2,950	1,670	842	1,130	4,580	3,900	690	1,950	420	560	255
21	230	3,110	2,510	804	1,060	3,780	3,790	815	1,770	2,160	530	249
22	230	2,460	2,390	1,460	984	2,970	3,370	680	1,370	5,780	488	252
23	240	1,990	2,200	3,100	936	2,430	6,220	620	1,120	4,260	443	245
24	240	1,690	1,950	3,100	892	2,070	8,120	590	954	2,290	425	249
25	240	1,490	1,880	2,190	831	2,100	6,000	570	903	3,550	412	255
26	242	1,490	1,860	1,680	787	4,830	3,770	560	842	5,180	404	242
27	235	1,670	1,730	1,520	771	6,680	2,790	565	1,500	4,790	384	235
28	242	1,690	1,510	1,630	749	5,360	2,190	585	4,430	2,820	364	232
29	242	1,570	1,310	2,230	-----	3,730	1,760	615	5,560	1,930	352	229
30	245	1,390	1,250	2,200	-----	3,440	1,500	640	4,460	1,440	340	226
31	248	-----	1,680	1,700	-----	3,620	-----	690	-----	1,180	332	-----
TOTAL	10,218	92,850	68,164	52,158	41,940	108,584	88,990	24,685	79,079	55,167	21,304	8,112
MEAN	330	3,095	2,199	1,683	1,498	3,503	2,966	796	2,636	1,780	687	270
MAX	858	9,460	4,920	4,250	3,730	8,280	8,120	1,340	8,420	5,780	1,540	380
MIN	230	340	974	760	749	716	1,410	560	540	420	332	226
CFSM	.31	2.92	2.07	1.59	1.41	3.30	2.80	.75	2.49	1.68	.65	.25
IN.	.36	3.26	2.39	1.83	1.47	3.81	3.12	.87	2.78	1.94	.75	.28

CAL YR 1972 TOTAL 428,361 MEAN 1,170 MAX 9,460 MIN 148 CFSM 1.10 IN 15.03
WTR YR 1973 TOTAL 651,251 MEAN 1,784 MAX 9,460 MIN 226 CFSM 1.68 IN 22.86

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-16	0100	13.18	11,000	04-24	0900	11.83	8,330
03-12	2100	12.02	8,640	06-07	0600	11.96	8,540

03363500 Flatrock River at St. Paul, Ind.

LOCATION.--Lat 39°25'03", long 85°38'03", in SE 1/4 NE 1/4 sec.9, T.11 N., R.8 E., Shelby County, on right bank 500 ft (152 m) downstream from highway bridge, 0.8 mile (1.3 km) southwest of St. Paul, and 1.5 miles (2.4 km) downstream from Mill Creek.

DRAINAGE AREA.--303 sq mi (785 sq km).

PERIOD OF RECORD.--WATER DISCHARGE: October 1930 to current year. Prior to October 1958, published as Flatrock Creek at St. Paul. SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 764.84 ft (233.123 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft (152 m) upstream at same datum.

AVERAGE DISCHARGE.--43 years, 312 cfs (8.836 cu m/s), 13.98 in/yr (355 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,960 cfs (140 cu m/s) Mar. 11, gage height, 6.10 ft (1.859 m); minimum daily, 15 cfs (0.42 cu m/s) Sept. 28.

Period of record: Maximum discharge, 18,500 cfs (524 cu m/s) Jan. 5, 1949; maximum recorded gage height, 12.37 ft (3.770 m) May 24, 1968; minimum daily discharge, 0.6 cfs (0.017 cu m/s) Aug. 7, 1931.

Flood in March 1913 reached a stage of approximately 20.5 ft (6.25 m), from information by local residents.

REMARKS.--Records good. Slight diversion occasionally by quarry above gage.

REVISIONS (WATER YEARS).--WSP 853: 1934-36. WSP 973: 1942. WSP 1335: 1933, 1936. WSP 1725: 1957(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	303	393	761	456	179	838	375	125	394	206	31
2	75	1,180	341	572	754	179	768	358	112	297	181	31
3	54	1,230	308	489	845	191	649	335	118	251	158	29
4	52	1,160	288	803	719	208	663	298	204	281	139	26
5	63	614	277	873	586	267	845	267	1,220	271	125	25
6	88	412	1,130	649	489	387	768	248	1,620	232	111	24
7	88	463	1,390	469	418	476	635	230	1,430	185	97	22
8	70	983	1,470	382	375	621	642	313	1,020	162	89	21
9	54	1,220	1,630	330	330	782	628	381	565	143	84	22
10	45	901	1,350	310	300	1,900	614	358	400	135	81	24
11	41	642	953	290	280	4,200	607	308	308	128	78	24
12	41	516	712	270	270	3,270	614	303	281	111	81	22
13	43	968	1,390	260	253	2,260	593	267	297	100	150	21
14	47	2,500	1,350	240	257	1,400	544	248	251	97	135	22
15	47	2,370	983	228	375	1,650	476	234	223	104	107	25
16	43	1,920	677	206	509	1,280	456	225	302	92	95	24
17	40	1,040	523	202	418	1,670	642	216	677	81	84	21
18	36	740	370	206	424	1,650	945	204	565	73	71	19
19	35	670	437	223	298	1,380	1,150	208	443	66	66	18
20	33	990	938	219	272	1,130	1,280	558	953	68	73	18
21	33	887	1,110	206	253	901	1,090	330	628	930	71	19
22	35	684	1,020	406	234	712	1,010	239	382	1,230	59	19
23	33	551	901	761	230	593	2,090	208	271	684	52	18
24	35	463	775	677	212	516	1,950	191	219	726	50	20
25	33	424	691	469	196	544	1,420	179	189	1,520	50	17
26	33	469	628	394	196	1,180	998	171	173	1,900	50	17
27	33	523	544	424	191	1,580	768	204	968	1,140	45	16
28	36	523	476	586	183	1,350	607	212	1,490	649	40	15
29	36	482	412	768	-----	901	482	171	1,380	400	37	17
30	35	424	400	614	-----	852	418	149	593	287	36	16
31	43	-----	670	456	-----	803	-----	138	-----	232	34	-----
TOTAL	1,452	26,252	24,537	13,743	10,323	35,012	25,190	8,126	17,407	12,969	2,735	643
MEAN	46.8	875	792	443	369	1,129	840	262	580	418	88.2	21.4
MAX	88	2,500	1,630	873	845	4,200	2,090	558	1,620	1,900	206	31
MIN	33	303	277	202	183	179	418	138	112	66	34	15
CFSM	.15	2.89	2.61	1.46	1.22	3.73	2.77	.86	1.91	1.38	.29	.07
IN.	.18	3.22	3.01	1.69	1.27	4.30	3.09	1.00	2.14	1.59	.34	.08

CAL YR 1972 TOTAL 127,936.2 MEAN 350 MAX 2,500 MIN 8.9 CFSM 1.16 IN 15.71
WTR YR 1973 TOTAL 178,389.0 MEAN 489 MAX 4,200 MIN 15 CFSM 1.61 IN 21.90

PEAK DISCHARGE (BASE, 2,500 CFS).--Nov. 14 (0300) 2,860 cfs (4.49 ft); Mar. 11 (1300) 4,960 cfs (6.10 ft).

03363500 Flatrock River at St. Paul, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 04...	1555	16.0	60	40	6.5
NOV. 09...	1530	--	1240	119	398
MAR. 02...	1600	7.0	183	13	6.4
APR. 02...	1730	10.0	782	47	99
MAY 07...	1530	15.0	228	10	6.2
JULY 18...	1430	--	75	19	3.8
AUG. 24...	1340	--	55	21	3.1

WABASH RIVER BASIN

03363900 Flatrock River at Columbus, Ind.

LOCATION.--Lat 39°14'06", long 85°55'36", in NE 1/4 SW 1/4 sec.12, T.9 N., R.5 E., Bartholomew County, on left bank at downstream side of U.S. Highway 31 (bypass) bridge, 0.2 mile (0.3 km) northwest of Columbus city limits, and 2.6 miles (4.2 km) upstream from mouth.

DRAINAGE AREA.--534 sq mi (1,383 sq km).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.14 ft (185.971 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 594 cfs (16.82 cu m/s), 15.11 in/yr (384 mm yr).

EXTREMES.--Current year: Maximum discharge, 7,920 cfs (224 cu m/s) Mar. 12, gage height, 11.79 ft (3.594 m); minimum daily, 45 cfs (1.27 cu m/s) Oct. 26, 27.

Period of record: Maximum discharge, 20,000 cfs (566 cu m/s) May 25, 1968, gage height, 15.87 ft (4.837 m), from inside high-water mark; minimum daily, 22 cfs (0.62 cu m/s) Oct. 5, 1967.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	99	733	958	728	343	1,450	771	304	834	484	111
2	85	886	679	791	1,080	339	1,340	713	276	636	438	107
3	91	2,050	621	733	1,280	343	1,160	679	266	548	393	105
4	83	1,670	582	1,060	1,180	346	1,070	621	311	536	354	101
5	78	1,250	553	1,330	976	368	1,230	553	1,340	636	319	97
6	91	762	1,010	1,130	820	440	1,240	504	2,920	532	291	91
7	113	616	2,380	850	718	529	1,080	476	3,460	456	264	92
8	113	1,130	2,120	708	620	728	1,040	514	2,150	400	246	91
9	95	1,530	3,060	621	540	752	1,060	626	1,360	361	235	91
10	80	1,480	2,700	550	480	2,240	1,020	606	940	333	230	90
11	71	1,010	1,900	500	440	4,040	976	519	728	305	228	88
12	66	801	1,320	450	464	7,220	964	464	611	284	228	87
13	61	752	1,780	420	464	5,000	940	432	577	258	246	85
14	60	3,350	2,420	400	448	2,930	880	396	563	240	284	86
15	58	4,730	1,870	390	548	2,980	801	372	464	230	264	86
16	63	3,830	1,300	380	737	2,530	747	353	485	225	233	85
17	60	2,370	922	400	669	2,710	838	339	832	211	210	84
18	55	1,520	700	416	567	3,390	1,200	325	1,110	197	190	82
19	51	1,210	786	424	563	2,770	1,890	308	805	185	180	81
20	48	1,450	1,090	436	490	2,180	2,030	336	1,080	179	170	79
21	47	1,600	1,730	420	464	1,810	1,870	592	1,180	596	160	78
22	46	1,320	1,680	558	436	1,480	1,510	400	786	2,330	167	80
23	48	1,070	1,480	1,080	420	1,250	3,160	343	582	1,380	153	82
24	47	898	1,250	1,150	404	1,070	4,250	315	468	996	145	78
25	46	801	1,080	874	380	988	2,940	294	404	1,820	141	79
26	45	801	970	723	364	1,550	2,040	322	372	2,750	135	77
27	45	904	880	699	360	2,440	1,490	357	820	2,440	132	75
28	47	910	786	781	353	2,350	1,200	460	2,190	1,470	127	74
29	47	850	708	1,120	-----	1,630	976	396	2,080	948	122	73
30	48	781	660	1,060	-----	1,390	850	357	1,350	686	118	71
31	51	-----	723	838	-----	1,320	-----	332	-----	560	115	-----
TOTAL	2,016	42,431	40,473	22,250	16,993	59,456	43,242	14,075	30,814	23,562	7,002	2,586
MEAN	65.0	1,414	1,306	718	607	1,918	1,441	454	1,027	760	226	86.2
MAX	113	4,730	3,060	1,330	1,280	7,220	4,250	771	3,460	2,750	484	111
MIN	45	99	553	380	353	339	747	294	266	179	115	71
CFSM	.12	2.65	2.45	1.34	1.14	3.59	2.70	.85	1.92	1.42	.42	.16
IN.	.14	2.96	2.82	1.55	1.18	4.14	3.01	.98	2.15	1.64	.49	.18

CAL YR 1972, TOTAL 219,689 MEAN 600 MAX 4,730 MIN 32 CFSM 1.12 IN 15.30
WTR YR 1973, TOTAL 304,900 MEAN 835 MAX 7,220 MIN 45 CFSM 1.56 IN 21.24

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0400	10.09	5,330	04-24	0300	9.68	4,820
03-12	1000	11.79	7,920	06-07	0600	9.02	4,020
03-18	0700	8.61	3,570				

03364000 East Fork White River at Columbus, Ind.

LOCATION.—Lat 39°12'00", long 85°55'32", in NE 1/4 NW 1/4 sec.25, T.9 N., R.5 E., Bartholomew County, on left bank at abutment of abandoned bridge at west end of Second Street in Columbus, 0.6 mile (1.0 km) downstream from confluence of Driftwood River and Flatrock River, and 1.3 miles (2.1 km) upstream from Haw Creek.

DRAINAGE AREA.—1,707 sq mi (4,421 sq km).

PERIOD OF RECORD.—October 1947 to current year. Prior to January 1948 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder above concrete control. Datum of gage is 603.12 ft (183.831 m) above mean sea level. Prior to Oct. 22, 1952, nonrecording gage 600 ft (183 m) upstream at same datum.

AVERAGE DISCHARGE.—26 years, 1,801 cfs (51.00 cu m/s), 14.33 in/yr (364 mm/yr).

EXTREMES.—Current year: Maximum discharge, 15,300 cfs (433 cu m/s) Mar. 12, gage height, 7.56 ft (2.304 m); minimum daily, 325 cfs (9.20 cu m/s) Sept. 30.

Period of record: Maximum discharge, 52,300 cfs (1,480 cu m/s) Mar. 6, 1963, gage height, 16.23 ft (4.947 m); minimum daily, 87 cfs (2.46 cu m/s) Sept. 29, 1954.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1335: 1948-49. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,180	588	2,150	3,160	2,270	1,110	5,520	2,270	1,110	3,130	1,550	462
2	1,050	2,270	1,970	2,740	3,340	1,090	5,340	2,090	1,010	2,270	1,370	450
3	840	5,160	1,730	2,330	4,440	1,110	4,290	1,970	978	1,910	1,250	432
4	681	7,920	1,600	3,700	4,170	1,150	3,840	1,820	1,050	1,880	1,130	423
5	602	6,680	1,530	4,740	3,410	1,250	3,880	1,650	3,520	2,300	1,050	414
6	616	5,060	2,670	3,840	2,880	1,370	3,700	1,530	9,300	2,850	960	405
7	647	4,320	5,300	2,810	2,450	1,650	3,270	1,450	12,100	1,910	906	396
8	602	4,780	5,520	2,210	2,210	2,000	3,270	1,730	10,000	1,500	854	387
9	532	6,110	6,620	1,820	2,030	2,300	3,130	1,880	6,490	1,310	822	396
10	479	5,580	5,950	1,530	1,790	4,860	2,990	1,790	3,660	1,210	906	387
11	457	4,850	4,630	1,410	1,600	11,200	2,880	1,550	2,740	1,110	906	387
12	446	4,260	3,620	1,350	1,480	14,700	2,780	1,450	2,210	996	806	378
13	435	4,260	4,400	1,310	1,430	13,300	2,710	1,390	2,030	906	1,230	369
14	468	8,030	6,150	1,290	1,430	8,790	2,510	1,290	2,240	854	1,730	378
15	446	12,700	5,230	1,270	2,030	6,490	2,300	1,230	1,760	790	1,650	450
16	446	13,800	3,910	1,230	2,920	5,840	2,180	1,190	1,680	790	1,680	498
17	424	10,300	2,880	1,190	2,540	6,720	2,710	1,150	2,710	726	1,290	423
18	402	4,780	2,540	1,190	2,060	9,690	4,210	1,110	4,700	668	1,030	387
19	391	3,770	2,390	1,270	1,880	8,680	5,630	1,090	3,440	626	888	369
20	372	4,170	2,990	1,310	1,650	6,530	5,740	1,130	3,130	612	790	360
21	355	4,630	4,210	1,230	1,550	5,520	5,450	1,600	3,020	1,830	742	360
22	346	3,840	4,100	2,060	1,450	4,360	4,970	1,290	2,210	7,590	710	369
23	355	3,230	3,800	3,800	1,390	3,550	9,830	1,170	1,730	6,120	654	369
24	355	2,710	3,370	3,980	1,330	3,060	12,900	1,090	1,480	4,130	626	353
25	346	2,450	3,130	3,060	1,250	3,130	10,200	1,050	1,370	5,340	598	378
26	346	2,420	3,020	2,420	1,190	5,840	5,910	1,070	1,290	7,200	584	353
27	346	2,670	2,810	2,240	1,170	8,760	4,400	1,110	2,360	7,440	558	339
28	355	2,670	2,480	2,420	1,150	8,120	3,520	1,250	5,950	4,440	534	339
29	355	2,540	2,240	3,160	-----	5,380	2,880	1,210	6,620	3,020	510	339
30	355	2,300	2,120	3,200	-----	4,670	2,480	1,190	6,080	2,210	486	325
31	372	-----	2,420	2,540	-----	4,820	-----	1,190	-----	1,790	486	-----
TOTAL	15,402	148,848	107,480	71,810	58,490	167,040	135,420	43,980	107,968	79,458	29,286	11,675
MEAN	497	4,962	3,467	2,316	2,089	5,388	4,514	1,419	3,599	2,563	945	389
MAX	1,180	13,800	6,620	4,740	4,440	14,700	12,900	2,270	12,100	7,590	1,730	498
MIN	346	588	1,530	1,190	1,150	1,090	2,180	1,050	978	612	486	325
CFSM	.29	2.91	2.03	1.36	1.22	3.16	2.64	.83	2.11	1.50	.55	.23
IN.	.34	3.24	2.34	1.56	1.27	3.64	2.95	.96	2.35	1.73	.64	.25

CAL YR 1972 TOTAL 705,829 MEAN 1,928 MAX 13,800 MIN 194 CFSM 1.13 IN 15.38
WTR YR 1973 TOTAL 976,857 MEAN 2,676 MAX 14,700 MIN 325 CFSM 1.57 IN 21.29

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-16	1400	7.02	14,000	04-24	0700	6.45	13,100
03-12	1400	7.56	15,300	06-07	1000	5.98	12,500

WABASH RIVER BASIN

03364200 Haw Creek near Clifford, Ind.

LOCATION.--Lat 39°16'04", long 85°51'22", in NW 1/4 SW 1/4 sec.34, T.10 N., R.6 E., Bartholomew County, on left bank 20 ft downstream from bridge on County Road 450 North, 1.2 miles (1.9 km) southeast of Clifford, 5.8 miles (9.3 km) northeast of Columbus, and 7.4 miles (11.9 km) upstream from mouth.

DRAINAGE AREA.--47.5 sq mi (123.0 sq km).

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 643.00 ft (195.986 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 46.9 cfs (1.328 cu m/s), 13.41 in/yr (341 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,710 cfs (48.4 cu m/s) Mar. 11, gage height, 11.53 ft (3.514 m); minimum daily, 1.6 cfs (0.045 cu m/s) Sept. 28, 30.

Period of record: Maximum discharge, 2,560 cfs (72.5 cu m/s) May 24, 1968, gage height, 13.9 ft (4.24 m), from floodmark; no flow at times during September and October 1967 due to diversion of streamflow to ground water resulting from irrigation pumpage.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	21	36	52	81	24	135	52	15	32	34	3.0
2	5.0	68	32	44	135	24	99	48	13	26	29	2.6
3	2.5	36	29	64	98	25	82	45	23	27	26	2.8
4	2.0	17	29	202	78	24	105	39	76	53	22	2.5
5	2.1	11	29	107	66	33	101	34	220	58	20	2.5
6	4.0	8.3	232	74	56	35	76	29	437	33	18	1.9
7	9.0	11	141	57	48	73	78	26	173	22	17	3.0
8	5.8	49	283	42	42	74	123	50	100	18	16	3.8
9	5.0	26	353	34	36	146	97	42	73	13	16	3.8
10	4.4	18	192	28	31	276	84	38	55	12	18	3.6
11	4.1	15	124	24	28	1,120	76	32	39	14	15	3.4
12	3.8	12	97	20	26	253	71	25	33	13	15	3.4
13	3.6	79	348	17	24	144	57	21	39	12	36	3.0
14	3.6	428	150	18	32	253	51	19	30	11	22	3.2
15	3.4	153	96	19	68	287	48	18	24	11	18	3.0
16	3.4	98	62	20	50	167	49	18	35	10	15	2.8
17	3.4	70	38	21	42	479	109	17	103	9.2	12	2.6
18	3.2	52	27	21	37	236	311	15	64	9.2	10	2.6
19	3.0	53	30	28	35	155	257	15	39	8.0	9.5	2.5
20	3.2	120	129	25	32	140	238	14	61	7.8	9.5	2.5
21	3.2	87	90	27	29	127	132	12	36	449	8.0	2.3
22	3.2	67	61	138	28	96	177	11	27	398	7.2	2.3
23	3.6	52	43	139	27	79	582	12	22	103	6.9	2.8
24	3.6	43	35	80	26	69	234	11	18	467	6.7	2.3
25	3.4	42	32	60	25	120	174	10	17	275	5.6	2.3
26	3.4	56	30	54	24	296	150	9.5	28	260	5.4	1.9
27	3.6	61	29	60	24	148	104	40	244	192	4.7	1.8
28	3.6	49	28	77	24	103	76	34	145	87	4.2	1.6
29	3.4	39	27	107	-----	102	64	25	69	56	3.6	1.8
30	3.6	38	29	68	-----	119	56	25	42	44	3.2	1.6
31	4.0	-----	65	54	-----	137	-----	19	-----	37	3.0	-----
TOTAL	115.8	1,879.3	2,926	1,781	1,252	5,364	3,996	805.5	2,300	2,767.2	436.5	79.2
MEAN	3.74	62.6	94.4	57.5	44.7	173	133	26.0	76.7	89.3	14.1	2.64
MAX	9.0	428	353	202	135	1,120	582	52	437	467	36	3.8
MIN	2.0	8.3	27	17	24	24	48	9.5	13	7.8	3.0	1.6
CFSM	.08	1.32	1.99	1.21	.94	3.64	2.80	.55	1.61	1.88	.30	.06
IN.	.09	1.47	2.29	1.39	.98	4.20	3.13	.63	1.80	2.17	.34	.06

CAL YR 1972 TOTAL 17,107.70 MEAN 46.7 MAX 1,410 MIN .70 CFSM .98 IN 13.40
WTR YR 1973 TOTAL 23,702.50 MEAN 64.9 MAX 1,120 MIN 1.6 CFSM 1.37 IN 18.56

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0500	6.82	614	04-18	1500	6.79	608
12-08	2100	7.14	678	04-23	1100	7.94	838
03-11	0900	11.53	1,710	06-06	1200	7.61	772
03-14	2200	7.36	722	07-21	2200	11.13	1,590

03364500 Clifty Creek at Hartsville, Ind.

LOCATION.—Lat 39°16'25", long 85°42'10", in NW 1/4 NW 1/4 sec.36, T.10 N., R.7 E., Bartholomew County, at downstream side of left abutment of highway bridge, 0.2 mile (0.3 km) north of Hartsville, and 5 miles (8 km) upstream from Duck Creek.

DRAINAGE AREA.—91.4 sq mi (236.7 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: February 1948 to current year.

CHEMICAL ANALYSIS: December 1970 to current year.

WATER TEMPERATURE: December 1970 to current year.

GAGE.—Water-stage recorder and multi-parameter monitor. Datum of gage is 677.34 ft (206.453 m) above mean sea level. Prior to Sept. 24, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—25 years, 95.5 cfs (2.705 cu m/s), 14.19 in/yr (360 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	25	62	130	139	40	253	84	30	80	42	5.6
2	4.3	240	56	90	323	42	197	80	29	60	38	5.2
3	2.4	200	52	130	278	43	155	76	32	50	33	4.4
4	2.8	120	50	290	201	45	197	66	37	218	29	4.3
5	3.3	80	47	220	155	66	232	58	309	176	25	4.5
6	3.3	48	240	160	125	112	173	55	474	82	22	4.5
7	9.2	70	200	98	105	159	144	58	323	52	19	4.1
8	6.6	170	250	82	84	264	215	91	147	40	17	4.1
9	4.3	120	310	66	74	211	204	64	95	33	16	5.0
10	2.5	84	200	55	68	722	187	55	70	29	16	6.0
11	1.8	82	150	50	65	1,620	173	46	53	27	14	5.9
12	2.4	74	120	46	64	958	162	42	46	22	14	5.2
13	2.8	70	330	43	64	351	136	39	45	19	71	4.7
14	2.3	200	200	41	66	278	115	39	39	16	64	5.5
15	2.0	750	130	40	118	702	102	40	33	15	31	6.1
16	1.8	210	94	38	107	369	98	39	50	16	23	5.7
17	1.7	150	74	42	72	598	152	38	379	14	18	5.0
18	1.6	120	56	45	84	586	383	36	197	12	14	5.4
19	1.5	180	72	50	70	400	421	36	218	12	12	5.0
20	1.3	260	140	48	64	299	432	40	456	12	11	4.6
21	1.2	180	120	43	60	267	281	39	166	786	42	4.1
22	1.2	130	130	147	55	197	232	35	95	1,060	25	6.7
23	1.3	100	120	253	55	152	622	35	66	243	16	9.2
24	1.4	82	110	159	50	131	482	35	52	501	13	8.4
25	1.4	88	120	110	45	125	299	33	42	427	11	8.4
26	1.4	98	110	95	45	358	257	33	37	289	9.6	7.8
27	1.4	110	100	112	43	379	190	55	666	186	8.3	6.6
28	1.3	88	90	169	42	236	139	50	428	106	7.5	5.3
29	1.5	78	80	257	-----	187	110	43	190	72	6.6	4.0
30	1.3	68	80	159	-----	271	95	37	118	55	6.2	3.2
31	1.8	-----	170	120	-----	243	-----	33	-----	47	7.0	-----
TOTAL	76.9	4,275	4,063	3,388	2,721	10,411	6,838	1,510	4,922	4,757	681.2	164.5
MEAN	2.48	143	131	109	97.2	336	228	48.7	164	153	22.0	5.48
MAX	9.2	750	330	290	323	1,620	622	91	666	1,060	71	9.2
MIN	1.2	25	47	38	42	40	95	33	29	12	6.2	3.2
CFSM	.03	1.56	1.43	1.19	1.06	3.68	2.49	.53	1.79	1.67	.24	.06
IN.	.03	1.74	1.65	1.38	1.11	4.24	2.78	.61	2.00	1.94	.28	.07
CAL YR 1972	TOTAL	30,860.78	MEAN	84.3	MAX	2,170	MIN	0	CFSM	.92	IN	12.56
WTR YR 1973	TOTAL	43,807.60	MEAN	120	MAX	1,620	MIN	1.2	CFSM	1.31	IN	17.83

PEAK DISCHARGE (BASE, 1,300 CFS)

Note.—No gage-height record Oct. 10 to Nov. 9 and Nov. 13 to Dec. 29.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	unknown	5.42	1,500	07-21	1800	6.94	2,370
03-11	1800	6.74	2,250				

WABASH RIVER BASIN

03364500 Clifty Creek at Hartsville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 2,370 cfs (67.1 cu m/s) July 21, gage height, 6.94 ft (2.115 m); minimum daily, 1.2 cfs (0.034 cu m/s) Oct. 21, 22.

Period of record: Maximum discharge, 11,300 cfs (320 cu m/s) Jan. 21, 1959, gage height, 14.29 ft (4.356 m); no flow at times most years.

Flood in 1913 reached a stage of 25.1 ft (7.65 m), from floodmarks.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 640 micromhos Jan. 12; minimum, 244 micromhos Mar. 12.

Period of record: Maximum conductance, 713 micromhos Jan. 17, 1972; minimum, 244 micromhos Mar. 12, 1973.

WATER TEMPERATURE, Current year: Maximum temperature, 28.5°C Sept. 2; minimum, freezing point on many days during December to February.

Period of record: Maximum temperature, 30.0°C June 6, 1971; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good, except those for periods of no gage-height record, which are poor.

REVISIONS (WATER YEARS).--WSP 1335: 1950. WSP 1725: 1949(M). WSP 2109: Drainage area.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	449	436	515	447	608	594	527	512	566	515	546	533
2	462	442	441	401	608	597	540	525	529	512	540	529
3	468	449	461	423	611	600	520	500	510	466	545	529
4	453	438	523	461	608	603	530	510	538	510	547	527
5	437	431	554	525	603	589	550	530	552	538	540	500
6	447	432	576	552	589	338	561	552	564	549	549	536
7	458	449	566	552	480	344	574	564	569	564	547	492
8	468	456	566	521	498	385	584	571	564	547	529	500
9	463	456	549	525	490	355	603	576	571	557	543	391
10	464	456	576	549	484	408	622	597	574	547	554	375
11	464	459	592	574	515	486	637	605	579	549	523	271
12	454	454	600	594	534	458	640	614	579	549	552	244
13	470	458	603	405	456	374	634	589	566	552	504	271
14	461	461	527	296	479	385	611	579	559	529	---	---
15	475	466	479	375	525	482	584	559	538	527	---	---
16	475	470	538	482	540	525	564	532	545	532	---	---
17	480	477	566	538	576	550	532	506	554	538	---	---
18	480	479	581	566	603	578	506	490	569	543	---	---
19	484	479	581	552	588	557	512	484	552	538	---	---
20	486	479	554	500	570	543	527	512	545	536	---	---
21	490	486	545	500	549	529	534	492	543	529	---	---
22	498	492	576	547	554	535	521	471	540	532	---	---
23	502	492	589	569	562	546	517	496	540	529	---	---
24	506	502	600	589	568	552	527	510	543	532	---	---
25	512	506	597	589	559	541	549	529	532	532	---	---
26	512	506	589	581	560	335	554	545	531	531	---	---
27	510	504	589	581	580	549	561	552	540	531	---	---
28	510	508	592	579	596	563	566	517	542	532	---	---
29	512	508	600	592	604	570	543	523	---	---	---	---
30	519	508	603	592	589	545	538	538	---	---	---	---
31	519	512	---	---	545	527	564	549	---	---	---	---
MONTH	519	431	603	296	611	338	640	471	579	466	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	540	502	561	498	502	469	---	---	---	---	434	384
2	542	510	552	490	494	462	---	---	---	---	456	401
3	525	498	547	498	488	459	---	---	---	---	452	407
4	490	490	480	480	480	304	---	---	---	---	452	408
5	523	492	521	454	471	315	---	---	---	---	459	419
6	561	494	527	463	428	317	---	---	---	---	468	417
7	540	521	538	484	425	360	---	---	---	---	452	414
8	534	471	510	463	494	400	---	---	---	---	452	426
9	527	498	534	468	515	460	---	---	---	---	454	431
10	532	517	506	466	538	480	---	---	---	---	471	434
11	540	498	529	477	552	500	---	---	---	---	463	431
12	536	519	543	486	561	510	---	---	---	---	471	431
13	561	498	545	492	---	---	---	---	---	---	463	451
14	566	492	552	496	---	---	---	---	---	---	464	451
15	557	477	554	496	---	---	---	---	---	---	464	452
16	527	461	557	484	---	---	---	---	---	---	464	452
17	525	484	543	482	---	---	---	---	---	---	461	454
18	515	396	529	479	---	---	---	---	---	---	461	451
19	484	426	525	488	---	---	---	---	---	---	461	451
20	482	435	519	492	---	---	---	---	---	---	466	454
21	532	444	515	477	---	---	---	---	---	---	466	451
22	557	484	510	446	---	---	---	---	---	---	470	417
23	534	355	494	442	---	---	---	---	---	---	416	351
24	471	376	500	470	---	---	---	---	517	484	452	407
25	504	447	502	470	---	---	---	---	508	434	463	444
26	540	475	504	464	---	---	---	---	470	404	466	451
27	559	494	475	425	---	---	---	---	439	385	470	459
28	576	506	508	455	---	---	---	---	428	375	475	464
29	576	500	534	490	---	---	---	---	425	376	477	470
30	579	506	529	508	---	---	---	---	434	382	480	470
31	---	---	515	480	---	---	---	---	426	380	---	---
MONTH	579	355	561	425	---	---	---	---	---	---	480	351

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible]

03365000 Sand Creek near Brewersville, Ind.

LOCATION.—Lat 39°05'03", long 85°39'32", in NW 1/4 NE 1/4 sec.5, T.7 N., R.8 E., Jennings County, on left bank at downstream side of county highway bridge, 2.5 miles (4.0 km) west of Brewersville, 5.7 miles (9.2 km) upstream from Wyaloosing Creek, and 16 miles (26 km) upstream from mouth.

DRAINAGE AREA.—155 sq mi (401 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: February 1948 to current year.
SEDIMENT DISCHARGE: August 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 629.13 ft (191.759 m) (revised) above mean sea level (levels by Indiana Department of Natural Resources). Prior to Oct. 6, 1952, nonrecording gage at site 1.7 miles (2.7 km) upstream at datum approximately 8 ft (2.4 m) higher.

AVERAGE DISCHARGE.—25 years, 166 cfs (4.701 cu m/s), 14.54 in/yr (369 mm/yr).

EXTREMES.—Current year: Maximum discharge, 5,070 cfs (144 cu m/s) July 24, gage height, 11.96 ft (3.645 m); minimum daily, 3.1 cfs (0.088 cu m/s) Sept. 23-27.

Period of record: Maximum discharge, 19,900 cfs (564 cu m/s) Jan. 21, 1959, gage height, 21.70 ft (6.614 m) inside, 22.20 ft (6.767 m) outside, from rating curve extended above 6,500 cfs (184 cu m/s) on basis of contracted-opening measurement of peak flow; no flow at times most years.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1335: 1949. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	469	110	355	207	72	486	116	43	155	58	3.9
2	38	697	100	211	700	70	333	113	39	111	50	3.7
3	18	338	88	187	600	74	315	105	71	80	42	3.5
4	62	161	86	791	400	80	516	90	88	123	36	3.3
5	207	106	92	375	300	350	555	80	395	263	30	3.2
6	112	79	2,290	229	240	300	350	74	455	135	25	20
7	53	129	665	161	200	900	265	68	408	84	21	7.3
8	30	498	1,190	119	170	700	531	485	191	61	18	6.7
9	20	227	1,520	101	150	471	400	239	132	48	16	7.9
10	14	153	606	90	130	1,200	350	131	101	44	14	9.0
11	10	161	320	80	115	2,310	380	147	79	41	13	7.3
12	14	129	217	72	105	1,020	300	99	66	33	12	6.7
13	16	486	1,020	65	100	441	250	82	61	27	11	6.1
14	11	1,830	489	61	120	456	200	72	56	22	20	5.5
15	9.8	531	270	59	450	1,420	160	65	52	21	17	5.2
16	7.9	265	209	57	350	651	150	62	86	20	15	4.6
17	6.0	193	141	56	210	1,800	700	58	1,070	17	12	4.4
18	4.6	147	127	56	170	1,000	1,700	54	350	15	10	3.9
19	5.4	213	149	63	140	672	936	51	237	14	10	3.7
20	9.4	546	1,060	74	130	819	880	62	498	12	9.6	3.5
21	8.2	270	637	70	120	763	415	70	270	598	9.0	3.3
22	7.5	193	370	328	110	332	300	53	183	827	8.3	3.3
23	8.2	155	265	510	102	257	892	51	132	235	7.6	3.1
24	8.6	122	213	320	96	229	628	49	113	1,300	7.6	3.1
25	9.4	118	179	217	90	323	373	46	505	1,220	7.0	3.1
26	9.4	245	153	173	84	1,380	338	42	149	395	6.4	3.1
27	9.4	270	145	175	80	588	233	49	1,630	308	5.8	3.1
28	10	189	124	237	75	345	183	85	1,010	165	5.8	3.3
29	10	143	115	558	-----	480	147	70	343	114	4.9	3.5
30	9.4	119	107	325	-----	848	128	55	217	82	4.4	3.7
31	15	-----	549	233	-----	447	-----	48	-----	66	4.2	-----
TOTAL	819.2	9,182	13,606	6,408	5,744	20,798	13,394	2,871	9,030	6,636	510.6	152.0
MEAN	26.4	306	439	207	205	671	446	92.6	301	214	16.5	5.07
MAX	207	1,830	2,290	791	700	2,310	1,700	485	1,630	1,300	58	20
MIN	4.6	79	86	56	75	70	128	42	39	12	4.2	3.1
CFSM	.17	1.97	2.83	1.34	1.32	4.33	2.88	.60	1.94	1.38	.11	.03
IN.	.20	2.20	3.27	1.54	1.38	4.99	3.21	.69	2.17	1.54	.12	.04

CAL YR 1972 TOTAL 72,666.6 MEAN 199 MAX 4,130 MIN 1.9 CFSM 1.28 IN 17.44
WTR YR 1973 TOTAL 89,150.8 MEAN 244 MAX 2,310 MIN 3.1 CFSM 1.57 IN 21.40

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	1300	10.76	4,130	03-11	1800	9.43	3,210
12-08	2400	9.23	3,090	07-24	2200	11.96	5,070

WABASH RIVER BASIN

03365000 Sand Creek near Brewersville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
DEC. 01...	1345	4.0	112	9	2.7
MAR. 22...	1615	9.0	318	34	29
AUG. 15...	1045	23.5	18	75	3.6

03365500 East Fork White River at Seymour, Ind.

LOCATION.—Lat 38°58'57", long 85°53'57", in NW 1/4 NE 1/4 sec.7, T.6 N., R.6 E., Jackson County, on left bank 1,700 ft (518 m) downstream from highway bridge, 1 mile (2 km) north of Seymour, 9.6 miles (15.4 km) downstream from Sand Creek, and at mile 219.2 (352.7 km).

DRAINAGE AREA.—2,341 sq mi (6,063 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: October 1927 to current year. Yearly maximum discharge only for water years 1924–27, published in WSP 1305. Daily gage heights from May 1923 to September 1927 are available in the district office.

WATER TEMPERATURE: October 1954 to current year.

SEDIMENT DISCHARGE: July 1966 to current year.

GAGE.—Water-stage recorder with temperature attachment. Datum of gage is 550.67 ft (167.844 m) above mean sea level. Oct. 1, 1927, to July 2, 1931, nonrecording gage 1,700 ft (518 m) upstream at datum 7.61 ft (2.320 m) higher. July 3, 1931, to July 16, 1934, nonrecording gage at site 100 ft (30 m) downstream at present datum.

AVERAGE DISCHARGE.—46 years, 2,377 cfs (67.32 cu m/s), 13.79 in/yr (350 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	770	556	2,860	4,190	3,480	1,700	7,400	3,420	1,580	7,170	2,370	706
2	958	1,640	2,670	3,870	4,410	1,660	7,620	3,170	1,480	3,710	2,060	683
3	865	4,330	2,450	3,180	6,010	1,670	6,760	2,980	1,460	2,890	1,850	660
4	745	5,860	2,270	4,630	6,090	1,690	5,730	2,800	1,480	2,710	1,690	637
5	674	6,450	2,150	6,180	5,270	1,880	6,090	2,590	2,460	2,890	1,550	624
6	706	5,020	3,890	6,020	4,320	2,230	5,500	2,420	6,880	3,180	1,460	610
7	669	3,380	7,660	4,480	3,690	2,770	4,870	2,280	11,700	3,160	1,360	593
8	642	3,520	7,800	3,370	3,280	4,150	5,030	2,570	12,500	2,520	1,270	584
9	588	4,950	12,400	2,830	3,040	3,400	5,360	3,120	10,900	2,070	1,200	593
10	542	5,480	11,800	2,440	2,760	6,450	4,730	2,680	7,190	1,850	1,160	571
11	502	4,580	9,050	2,180	2,510	12,000	4,560	2,470	4,250	1,720	1,210	559
12	494	3,560	6,250	2,030	2,310	21,700	4,270	2,230	3,240	1,590	1,170	550
13	468	3,060	6,060	1,960	2,210	18,800	4,010	2,080	2,810	1,460	1,110	534
14	472	6,960	8,660	1,880	2,180	15,000	3,700	1,950	2,630	1,370	1,630	530
15	479	11,500	8,910	1,820	3,120	13,600	3,400	1,850	2,610	1,290	1,840	538
16	468	14,200	6,870	1,760	3,960	11,200	3,150	1,770	2,280	1,220	1,890	597
17	460	15,300	4,410	1,700	3,720	11,100	3,480	1,700	2,240	1,180	1,760	584
18	437	10,900	3,320	1,670	3,080	13,800	6,060	1,640	5,920	1,130	1,480	534
19	422	6,070	3,140	1,700	2,800	13,200	10,300	1,590	4,980	1,110	1,290	502
20	411	5,590	4,640	1,760	2,560	11,400	10,100	1,550	4,840	1,070	1,170	487
21	403	6,320	6,280	1,740	2,400	11,200	9,160	1,780	4,890	1,260	1,080	475
22	396	5,790	6,220	2,530	2,250	7,990	7,340	1,850	3,660	5,500	1,040	468
23	396	4,680	5,510	4,460	2,120	5,900	8,750	1,660	2,750	9,260	1,000	472
24	388	3,880	4,730	5,400	2,030	4,850	15,400	1,550	2,270	7,050	942	460
25	377	3,370	4,110	4,720	1,930	4,380	15,400	1,490	2,190	7,750	910	453
26	381	3,270	3,790	3,670	1,840	7,080	12,000	1,460	2,180	9,810	875	464
27	381	3,600	3,580	3,240	1,790	10,100	7,920	1,500	2,520	9,550	850	445
28	388	3,650	3,250	3,380	1,750	11,100	5,690	1,690	7,450	9,180	815	430
29	384	3,380	2,900	4,580	-----	9,590	4,520	1,740	8,110	5,310	785	430
30	377	3,090	2,650	4,830	-----	7,850	3,840	1,660	7,970	3,530	755	418
31	399	-----	3,320	4,250	-----	6,870	-----	1,630	-----	2,810	730	-----
TOTAL	16,042	163,936	163,600	102,450	86,910	256,310	202,140	64,870	137,420	116,300	40,302	16,191
MEAN	517	5,465	5,277	3,305	3,104	8,268	6,738	2,093	4,581	3,752	1,300	540
MAX	958	15,300	12,400	6,180	6,090	21,700	15,400	3,420	12,500	9,810	2,370	706
MIN	377	556	2,150	1,670	1,750	1,660	3,150	1,460	1,460	1,070	730	418
CFSM	.22	2.33	2.25	1.41	1.33	3.53	2.88	.89	1.96	1.60	.56	.23
IN.	.25	2.61	2.60	1.63	1.38	4.07	3.21	1.03	2.18	1.85	.64	.26

CAL YR 1972 TOTAL 958,953 MEAN 2,620 MAX 23,700 MIN 243 CFSM 1.12 IN 15.24
WTR YR 1973 TOTAL 1,366,471 MEAN 3,744 MAX 21,700 MIN 377 CFSM 1.60 IN 21.71

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-17	1030	14.66	15,800	03-18	1300	14.11	14,100
12-09	1700	13.97	13,700	04-24	2000	14.93	16,800
03-12	0900	16.12	22,700	06-08	1000	13.63	12,700

03365500 East Fork White River at Seymour, Ind.—Continued

EXTREMES.—WATER DISCHARGE, Current year: Maximum discharge, 22,700 cfs (643 cu m/s) Mar. 12, gage height, 16.12 ft (4.913 m); minimum daily, 377 cfs (10.7 cu m/s) Oct. 25, 30.

Period of record: Maximum discharge, 78,500 cfs (2,220 cu m/s) Jan. 5, 1949, gage height, 19.67 ft (5.995 m); minimum daily, 86 cfs (2.44 cu m/s) Sept. 28, 30, 1941.

Flood of Mar. 26, 1913, reached a stage of 21.0 ft (6.40 m), from information by Corps of Engineers and State Highway Department of Indiana, discharge, 120,000 cfs (3,400 cu m/s).

WATER TEMPERATURE, Current year: Maximum temperature recorded, 24.0°C June 5; minimum, 0.5°C December 17, 18, Jan. 10–13, Feb. 18.

Period of record: Maximum temperature, 31.0°C July 13, 14, 1966; minimum, freezing point on many days during most winter periods.

Maximum temperature of 32.0°C was observed on July 19, 1954.

SEDIMENT CONCENTRATIONS, Current year: Maximum daily concentration, 1,100 mg/l June 25; minimum daily, 13 mg/l Jan. 17.

Period of record: Maximum daily concentration, 1,200 mg/l May 25, June 25, 1968; minimum daily, 4 mg/l Nov. 5, 1966.

SEDIMENT DISCHARGE, Current year: Maximum daily load, 17,300 tons (15,700 tonnes) Mar. 12; minimum daily, 22.0 tons (20.0 tonnes) Oct. 25, 30.

Period of record: Maximum daily load, 179,000 tons (162,000 tonnes) May 25, 1968; minimum daily, 3 tons (2.7 tonnes) Nov. 5, 1966.

REMARKS.—Records good. Some regulation of low flow and temperatures by Seymour Water Co. at dam 500 ft (152 m) upstream from station. Sediment samples collected at highway bridge.

REVISIONS (WATER YEARS).—WSP 743: 1928–29, 1931–32. WSP 783: 1934. WSP 873: 1938. WSP 1335: 1928(M), 1929–30, 1932–33(M), 1937(M), 1942. WSP 1435: 1949. WSP 1705: 1958. WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.0	11.5	11.0	5.5	5.0	7.0	6.0	4.0	3.0	6.0	4.5
2	16.5	15.5	13.0	11.5	5.5	5.0	6.0	4.5	5.0	4.0	7.0	6.0
3	17.0	16.0	13.0	12.0	6.5	5.5	4.5	4.0	5.0	5.0	8.0	7.0
4	17.0	16.5	12.0	11.5	6.5	6.5	4.0	4.0	5.0	4.5	9.5	8.0
5	16.5	16.5	11.5	10.5	6.5	6.5	4.0	3.0	5.0	4.5	11.0	9.5
6	17.0	16.5	10.5	10.0	6.5	5.5	3.0	2.0	5.5	5.0	12.0	11.0
7	17.0	16.5	10.5	10.5	5.5	3.5	2.0	1.5	5.5	5.5	13.5	12.0
8	16.5	16.0	10.5	10.0	3.5	3.5	1.5	1.5	5.5	4.5	13.5	13.0
9	16.5	16.0	10.0	9.5	3.5	3.0	1.5	1.0	4.5	3.0	13.0	11.5
10	16.0	15.0	9.5	9.0	3.5	3.5	1.0	0.5	3.0	2.0	11.5	10.5
11	16.0	15.5	9.0	8.5	3.5	3.0	1.0	0.5	2.0	1.5	13.5	11.0
12	15.5	15.5	8.5	8.5	3.5	3.0	1.0	0.5	2.0	1.5	13.5	12.5
13	15.5	15.0	8.5	8.5	4.0	3.5	1.0	0.5	2.0	2.0	12.5	11.5
14	15.0	14.5	8.5	8.0	4.0	3.0	1.5	1.0	3.0	2.0	12.0	11.5
15	14.5	14.0	8.0	6.5	3.0	2.0	2.5	1.5	3.0	2.5	13.0	12.0
16	14.0	14.0	6.5	6.0	2.0	1.0	3.5	2.5	2.5	1.5	13.0	12.0
17	14.0	13.5	6.0	5.5	1.0	0.5	4.5	3.5	1.5	1.0	12.0	8.0
18	13.5	11.5	6.0	5.5	1.0	0.5	6.0	4.5	1.0	0.5	8.0	6.5
19	11.5	10.5	6.0	6.0	2.0	1.0	6.0	6.0	2.0	1.0	7.0	6.0
20	10.5	10.0	6.0	6.0	2.0	2.0	6.0	5.5	3.0	2.0	7.0	7.0
21	10.5	10.5	6.0	6.0	3.5	2.0	5.5	4.5	3.5	3.0	7.0	6.0
22	11.5	10.5	6.5	6.0	4.0	3.5	4.5	4.0	3.0	3.0	7.5	6.5
23	13.5	11.5	6.5	6.0	4.5	4.0	4.0	3.5	4.0	3.0	8.5	7.5
24	13.0	12.0	6.0	5.5	4.5	4.5	3.5	3.5	4.5	3.5	9.5	8.5
25	12.0	11.0	6.0	5.5	5.0	4.5	3.5	3.0	4.5	4.0	10.5	9.5
26	11.0	10.5	5.5	5.5	5.0	4.5	3.5	3.0	5.0	4.5	10.5	10.5
27	10.5	10.0	5.5	5.0	4.5	4.0	4.0	3.5	5.0	4.5	10.5	9.5
28	10.5	10.0	5.5	5.5	4.0	4.0	4.5	4.0	5.0	4.0	10.5	9.5
29	11.0	10.5	5.5	5.0	4.0	4.0	4.5	3.5	---	---	10.5	10.5
30	11.0	10.5	5.0	5.0	6.0	4.0	3.5	3.0	---	---	11.0	10.5
31	11.0	11.0	---	---	7.0	6.0	3.0	2.5	---	---	12.0	11.0
MONTH	17.0	10.0	13.0	5.0	7.0	0.5	7.0	0.5	5.5	0.5	13.5	4.5

03365500 East Fork White River at Seymour, Ind.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.5	17.0	14.5	19.5	17.5	---	---	---	---	---	---
2	11.5	10.5	18.0	16.5	20.5	19.0	---	---	---	---	---	---
3	10.5	9.5	17.5	17.0	23.0	20.5	---	---	---	---	---	---
4	9.5	9.0	17.0	16.0	23.5	23.0	---	---	---	---	---	---
5	9.0	8.0	16.0	15.0	24.0	23.0	---	---	---	---	---	---
6	9.0	8.0	15.5	15.0	23.5	22.0	---	---	---	---	---	---
7	9.5	9.0	15.0	14.5	---	---	---	---	---	---	---	---
8	10.5	9.5	16.0	14.5	---	---	---	---	---	---	---	---
9	10.5	10.5	18.0	16.0	---	---	---	---	---	---	---	---
10	10.5	8.5	19.0	18.0	---	---	---	---	---	---	---	---
11	8.5	7.5	19.0	18.5	---	---	---	---	---	---	---	---
12	8.0	8.0	18.5	18.0	---	---	---	---	---	---	---	---
13	8.5	7.0	18.0	16.5	---	---	---	---	---	---	---	---
14	9.5	8.5	16.5	15.5	---	---	---	---	---	---	---	---
15	11.5	9.5	15.5	15.0	---	---	---	---	---	---	---	---
16	12.0	10.5	15.5	14.0	---	---	---	---	---	---	---	---
17	12.0	11.5	15.0	14.0	---	---	---	---	---	---	---	---
18	12.5	11.5	15.5	14.0	---	---	---	---	---	---	---	---
19	13.5	12.5	16.5	14.5	---	---	---	---	---	---	---	---
20	15.0	13.5	16.5	16.0	---	---	---	---	---	---	---	---
21	16.5	15.0	18.0	16.5	---	---	---	---	---	---	---	---
22	16.5	16.0	18.0	18.0	---	---	---	---	---	---	---	---
23	16.0	16.0	19.0	18.0	---	---	---	---	---	---	---	---
24	16.0	15.5	19.5	18.5	---	---	---	---	---	---	---	---
25	16.0	15.0	19.5	18.5	---	---	---	---	---	---	---	---
26	15.0	14.0	20.5	18.5	---	---	---	---	---	---	---	---
27	14.0	13.0	20.5	19.5	---	---	---	---	---	---	---	---
28	13.0	13.0	19.5	19.0	---	---	---	---	---	---	---	---
29	13.5	12.5	19.0	18.5	---	---	---	---	---	---	---	---
30	14.5	13.5	18.5	17.5	---	---	---	---	---	---	---	---
31	---	---	18.0	17.0	---	---	---	---	---	---	---	---
MONTH	16.5	7.0	20.5	14.0	---	---	---	---	---	---	---	---

03365500 East Fork White River at Seymour, Ind.--Continued
 SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	770	35	73	556	38	61	2860	42	324
2	958	32	83	1640	174	845	2670	37	267
3	865	30	70	4330	491	5650	2450	33	218
4	745	28	56	5860	312	4970	2270	28	172
5	674	27	49	6450	245	4270	2150	24	139
6	706	27	51	5020	136	1840	3890	477	4170
7	669	27	49	3380	84	767	7660	267	5550
8	642	27	47	3520	129	1230	7800	207	4440
9	588	27	43	4950	134	1790	12400	451	15600
10	542	26	38	5480	76	1120	11800	224	7210
11	502	26	35	4580	67	829	9050	109	2660
12	494	26	35	3560	54	519	6250	61	1030
13	468	26	45	3060	54	446	6060	84	1370
14	472	26	46	6960	392	7740	8660	78	1840
15	479	34	44	11500	196	6090	8910	39	938
16	468	32	40	14200	248	9800	6870	37	686
17	460	30	37	15300	187	7800	4410	36	429
18	437	28	33	10900	139	4090	3320	35	314
19	422	26	30	6070	100	1640	3140	32	271
20	411	25	28	5590	98	1480	4640	105	1440
21	403	24	26	6320	146	2490	6280	96	1620
22	396	23	25	5790	76	1190	6220	48	806
23	396	22	24	4680	57	720	5510	31	461
24	388	22	23	3880	44	461	4730	36	460
25	377	22	22	3370	37	337	4110	32	355
26	381	22	23	3270	70	618	3790	19	194
27	381	22	23	3600	87	846	3580	14	135
28	388	22	23	3650	79	779	3250	15	132
29	384	22	23	3380	61	557	2900	14	110
30	377	22	22	3090	46	384	2650	20	146
31	399	23	25	--	--	--	3320	64	608
TOTAL	16042	--	1191	163936	--	71359	163600	--	54095
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4190	79	894	3480	20	188	1700	18	83
2	3870	55	575	4410	69	960	1660	18	81
3	3180	48	412	6010	111	1940	1670	18	81
4	4630	139	1930	6090	53	871	1690	18	82
5	6180	137	2250	5270	39	555	1880	29	147
6	6020	88	1430	4320	35	408	2230	34	205
7	4480	39	472	3690	30	299	2770	432	3600
8	3370	32	291	3280	27	239	4150	474	5430
9	2830	24	183	3040	22	181	3400	149	1370
10	2440	20	132	2760	19	142	6450	495	8970
11	2180	17	100	2510	17	115	12000	386	13200
12	2030	15	82	2310	17	106	21700	297	17300
13	1960	15	79	2210	16	95	18800	168	8530
14	1880	15	76	2180	22	131	15000	130	5270
15	1820	15	74	3120	69	593	13600	116	4260
16	1760	14	67	3960	35	375	11200	112	3390
17	1700	13	60	3720	22	221	11100	137	4100
18	1670	25	113	3080	18	150	13800	72	2680
19	1700	52	239	2800	17	129	13200	74	2640
20	1760	67	318	2560	18	124	11400	81	2490
21	1740	75	352	2400	19	123	11200	82	2480
22	2530	136	1040	2250	19	115	7990	101	2120
23	4460	133	1560	2120	17	97	5900	78	1240
24	5400	63	919	2030	17	93	4850	51	668
25	4720	51	650	1930	18	94	4380	50	594
26	3670	33	327	1840	19	94	7080	151	2960
27	3240	19	166	1790	19	92	10100	110	2980
28	3380	64	594	1750	19	90	11100	92	2750
29	4580	91	1120	--	--	--	9590	61	1580
30	4830	65	854	--	--	--	7850	87	1860
31	4250	21	241	--	--	--	6870	50	927
TOTAL	102450	--	17600	86910	--	8620	256310	--	104068

03365500 East Fork White River at Seymour, Ind.--Continued

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7400	57	1140	3420	111	1020	1580	59	252
2	7620	52	1070	3170	108	924	1480	58	232
3	6760	46	840	2980	109	877	1460	57	225
4	5730	61	944	2800	113	854	1480	58	232
5	6090	74	1220	2590	109	762	2460	433	3590
6	5500	57	846	2420	104	680	6880	640	11500
7	4870	47	618	2280	98	603	11700	453	14200
8	5030	60	811	2570	185	1380	12500	269	10600
9	5360	61	883	3120	317	2790	10900	150	4410
10	4730	53	677	2680	109	789	7190	165	3730
11	4560	44	542	2470	98	654	4250	164	1880
12	4270	42	484	2230	95	572	3240	161	1410
13	4010	40	433	2080	98	550	2810	157	1190
14	3700	38	380	1950	92	484	2630	179	1270
15	3400	35	321	1850	85	425	2610	228	1610
16	3150	33	281	1770	82	392	2280	217	1340
17	3480	85	823	1700	79	363	2240	743	4690
18	6060	99	1750	1640	79	350	5920	690	11000
19	10300	71	1950	1590	78	335	4980	295	4300
20	10100	68	1860	1550	76	318	4840	446	6330
21	9160	63	1560	1780	115	571	4890	485	6920
22	7340	70	1390	1850	109	544	3660	253	2500
23	8750	181	4350	1660	80	359	2750	224	1660
24	15400	160	6670	1550	68	285	2270	215	1320
25	15400	122	5110	1490	65	261	2190	1100	7290
26	12000	197	6340	1460	63	248	2180	399	2360
27	7920	158	3420	1500	64	259	2520	897	6080
28	5690	122	1870	1690	74	338	7450	568	11800
29	4520	117	1430	1740	63	296	8110	404	8850
30	3840	114	1180	1660	60	269	7970	238	5120
31	--	--	--	1630	60	264	--	--	--
TOTAL	202140	--	51193	64870	--	18816	137420	--	137891
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7170	224	4150	2370	114	729	706	38	72
2	3710	220	2200	2060	111	617	683	37	68
3	2890	150	1170	1850	104	519	660	37	66
4	2710	274	2000	1690	101	461	637	37	64
5	2890	243	1900	1550	98	410	624	37	62
6	3180	345	2960	1460	94	371	610	38	63
7	3160	265	2260	1360	86	316	593	38	61
8	2520	223	1520	1270	74	254	584	38	60
9	2070	207	1160	1200	63	204	593	41	66
10	1850	191	954	1160	54	169	571	45	69
11	1720	170	789	1210	46	150	559	45	68
12	1590	145	622	1170	42	133	550	45	67
13	1460	131	516	1110	44	132	534	45	65
14	1370	126	466	1630	135	634	530	45	64
15	1290	120	418	1840	60	298	538	48	70
16	1220	114	376	1890	63	321	597	52	84
17	1180	111	354	1760	57	271	584	51	80
18	1130	114	348	1480	48	192	534	49	71
19	1110	122	366	1290	47	164	502	48	65
20	1070	123	355	1170	44	139	487	47	62
21	1260	155	565	1080	42	122	475	46	59
22	5500	388	5050	1040	41	115	468	46	58
23	9260	183	4570	1000	41	111	472	46	59
24	7050	326	6410	942	40	102	460	45	56
25	7750	270	5820	910	40	98	453	45	55
26	9810	169	4480	875	40	95	464	45	56
27	9550	176	4540	850	39	90	445	45	54
28	9180	149	3690	815	39	86	430	44	51
29	5310	138	1980	785	39	83	430	44	51
30	3530	130	1240	755	38	77	418	44	50
31	2810	122	926	730	38	75	--	--	--
TOTAL	116300	--	64155	40302	--	7538	16191	--	1896
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)								1366471	
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)								538422	

WABASH RIVER BASIN

03365500 East Fork White River at Seymour, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
DEC. 06...	0700	6.5	2200	951	5650	47	60	72	86	97	99	100
MAR. 10...	0740	11.0	5800	502	7860	51	62	73	85	96	99	100
APP. 23...	1740	16.0	10100	196	5340	63	74	83	94	98	100	--
JUNE 06...	1330	22.0	7010	697	13200	64	81	89	93	97	99	100
27...	0700	21.5	1940	953	4990	51	66	80	94	99	100	--

03366000 Graham Creek near Vernon, Ind.

LOCATION.—Lat 38°55'47", long 85°33'45", in NW 1/4 SE 1/4 sec.30, T.6 N., R.9 E., Jennings County, on right bank 10 ft (3 m) upstream from State Highway 7, 4.7 miles (7.6 km) southeast of Vernon, and 8.0 miles (12.9 km) downstream from Little Graham Creek.

DRAINAGE AREA.—77.2 sq mi (199.9 sq km).

PERIOD OF RECORD.—June 1955 to September 1973 (discontinued as a continuous-record station; converted to a crest-stage and low-flow partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 677.47 ft (206.493 m) above mean sea level (unadjusted). Prior to June 10, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—18 years, 93.2 cfs (2.639 cu m/s), 16.39 in/yr (416 mm/yr).

EXTREMES.—Current year: Maximum discharge, 3,820 cfs (108 cu m/s) June 27, gage height, 10.47 ft (3.191 m); minimum daily, 2.1 cfs (0.059 cu m/s) Oct. 22-24.

Period of record: Maximum discharge, 18,600 cfs (527 cu m/s) June 23, 1960, gage height, 21.37 ft (6.514 m), from rating curve extended above 6,000 cfs (170 cu m/s) on basis of contracted-opening measurements of peak flow; no flow at times most years.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	571	96	202	113	36	237	46	86	73	35	5.1
2	14	484	83	102	375	35	161	47	67	54	30	5.1
3	9.5	248	68	105	232	36	151	47	143	46	28	5.1
4	16	100	62	827	162	53	414	42	107	214	24	5.1
5	66	69	63	242	113	451	306	36	77	191	21	5.2
6	32	53	971	127	92	253	152	32	316	96	19	5.1
7	28	170	389	88	78	502	112	30	259	56	17	4.2
8	15	720	1,460	45	78	320	392	212	117	40	15	3.6
9	10	185	1,480	35	82	172	208	163	77	32	15	9.2
10	8.0	105	385	27	63	234	173	78	57	29	15	16
11	5.6	108	184	23	55	1,390	161	94	45	38	15	17
12	4.6	101	117	21	50	361	125	81	37	50	16	14
13	4.0	292	583	19	50	163	97	53	34	31	16	13
14	3.2	1,540	256	17	69	469	75	44	32	25	15	13
15	3.6	302	110	20	505	1,160	64	38	33	22	17	12
16	5.0	136	85	36	241	369	60	34	367	20	15	12
17	3.9	95	63	37	114	1,060	191	32	321	18	13	11
18	3.2	75	50	39	92	436	1,110	29	183	17	12	9.6
19	2.8	134	102	46	78	283	671	28	120	15	11	8.5
20	2.7	761	1,070	52	75	317	589	28	125	14	10	8.6
21	2.4	225	382	52	76	572	221	28	77	334	9.6	8.2
22	2.1	126	202	380	63	195	132	27	50	1,010	8.9	7.8
23	2.1	96	136	546	52	126	242	28	36	171	7.9	12
24	2.1	78	103	207	46	96	244	27	30	380	7.6	13
25	2.3	69	88	121	42	180	124	27	128	1,160	7.6	12
26	2.4	110	82	95	40	828	102	219	97	276	7.2	11
27	2.5	216	84	119	42	217	84	387	1,280	191	7.3	9.9
28	2.7	136	77	188	39	128	73	362	981	130	6.8	8.9
29	2.9	147	71	400	-----	395	60	291	193	67	6.9	12
30	3.3	110	70	147	-----	716	50	148	108	45	6.0	11
31	18	-----	301	105	-----	240	-----	114	-----	37	5.4	-----
TOTAL	295.9	7,562	9,273	4,470	3,117	11,793	6,781	2,852	5,583	4,882	440.2	288.2
MEAN	9.55	252	299	144	111	380	226	92.0	186	157	14.2	9.61
MAX	66	1,540	1,480	827	505	1,390	1,110	387	1,280	1,160	35	17
MIN	2.1	53	50	17	39	35	50	27	30	14	5.4	3.6
CFSM	.12	3.26	3.87	1.87	1.44	4.92	2.93	1.19	2.41	2.03	.18	.12
IN.	.14	3.64	4.47	2.15	1.50	5.68	3.27	1.37	2.69	2.35	.21	.14

CAL YR 1972 TOTAL 48,776.62 MEAN 133 MAX 3,400 MIN 0 CFSM 1.72 IN 23.50
WTR YR 1973 TOTAL 57,337.30 MEAN 157 MAX 1,540 MIN 2.1 CFSM 2.03 IN 27.63

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-08	2200	9.46	3,020	06-27	2100	10.47	3,820
03-11	1100	8.79	2,550	07-25	0300	9.08	2,760
03-15	0100	9.37	2,960				

WABASH RIVER BASIN

03366200 Harberts Creek near Madison, Ind.

LOCATION.--Lat 38°46'55", long 85°29'08", in SW 1/4 SE 1/4 sec.14, T.4 N., R.9 E., Jefferson County, attached to left downstream wingwall of bridge on County Road 533 West, 0.2 mile (0.3 km) west of Smyrna, 3.7 miles (6.0 km) upstream from Big Creek, and 4 miles (6 km) northwest of Madison.

DRAINAGE AREA.--9.31 sq mi (24.11 sq km).

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 725.75 ft (221.209 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 11.0 cfs (0.312 cu m/s), 16.05 in/yr (408 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,150 cfs (32.6 cu m/s) June 6, gage height, 7.10 ft (2.164 m); minimum daily, 0.01 cfs (0.0003 cu m/s) Sept. 4.

Period of record: Maximum discharge, 1,540 cfs (43.6 cu m/s) Apr. 2, 1970, gage height, 7.89 ft (2.405 m); no flow at times most years.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	126	24	12	31	2.7	22	5.6	6.8	20	1.0	.06
2	1.8	40	21	7.8	28	2.7	19	5.6	5.2	8.5	.71	.04
3	1.0	18	13	52	24	6.2	17	5.2	19	4.3	.55	.02
4	37	10	11	47	16	15	65	3.7	7.8	6.5	.42	.01
5	12	7.2	11	17	11	102	26	2.7	76	11	.37	.42
6	4.6	5.6	67	9.9	8.9	24	17	2.2	288	4.3	.33	.91
7	2.5	87	23	6.5	7.2	55	19	1.8	25	2.5	.29	.25
8	1.5	43	320	4.9	14	24	85	17	12	1.6	.25	.13
9	.91	16	71	3.7	9.6	16	26	6.5	7.5	1.3	1.6	3.2
10	.63	12	27	3.0	6.8	15	22	6.8	5.2	11	2.2	.81
11	.63	13	15	2.6	4.7	149	19	6.2	3.7	4.6	.71	.25
12	1.0	8.9	15	2.2	4.0	28	15	3.2	8.5	2.2	.42	.16
13	1.2	133	51	2.0	3.1	16	13	2.5	12	1.5	.48	.13
14	1.0	86	18	1.9	36	37	11	2.0	4.3	1.2	4.0	.71
15	.71	20	12	1.8	42	45	9.2	1.6	3.2	1.5	1.5	.29
16	.71	12	8.6	1.5	18	58	10	1.6	3.7	1.2	.63	.13
17	.71	9.3	6.8	1.3	13	109	158	1.5	82	.81	.42	.07
18	.55	7.3	5.5	1.5	11	36	160	1.5	16	.55	.29	.04
19	.48	54	28	3.5	6.8	23	70	1.3	11	.55	.22	.04
20	.48	39	80	2.7	7.8	52	47	1.2	14	.48	.19	.04
21	.55	16	24	13	7.5	37	26	1.3	6.2	12	.16	.06
22	.55	12	17	59	5.6	18	20	1.3	4.0	13	.16	.07
23	.71	11	12	31	4.9	14	98	3.0	2.5	11	.16	6.2
24	.81	8.1	9.9	16	3.7	11	32	1.5	1.6	35	.16	.71
25	.71	8.2	8.5	10	3.5	79	18	2.2	1.2	12	.22	.29
26	.63	20	8.2	8.2	3.5	64	14	8.9	1.0	6.8	.16	.19
27	.71	17	7.8	20	3.5	22	12	71	41	4.0	.11	.11
28	2.0	26	7.2	29	2.7	15	10	28	18	2.0	.11	.07
29	1.3	25	6.2	26	-----	19	7.8	24	7.5	1.2	.11	.07
30	1.2	25	6.2	13	-----	27	5.9	22	4.6	.81	.13	.07
31	6.5	-----	29	10	-----	28	-----	11	-----	1.0	.09	-----
TOTAL	89.38	915.6	963.9	420.0	337.8	1,149.6	1,073.9	253.9	698.5	184.40	18.15	15.55
MEAN	2.88	30.5	31.1	13.5	12.1	37.1	35.8	8.19	23.3	5.95	.59	.52
MAX	37	133	320	59	42	149	160	71	288	35	4.0	6.2
MIN	.48	5.6	5.5	1.3	2.7	2.7	5.9	1.2	1.0	.48	.09	.01
CFSM	.31	3.28	3.34	1.45	1.30	3.99	3.85	.88	2.50	.64	.06	.06
IN.	.36	3.66	3.85	1.68	1.35	4.59	4.29	1.01	2.79	.74	.07	.06

CAL YR 1972 TOTAL 5,169.78 MEAN 14.1 MAX 421 MIN 0 CFSM 1.51 IN 20.66
WTR YR 1973 TOTAL 6,120.68 MEAN 16.8 MAX 320 MIN .01 CFSM 1.80 IN 24.46

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-01	0300	5.21	373	04-17	1500	4.99	318
11-13	1700	5.50	460	04-18	0800	5.41	433
12-08	1500	5.93	622	06-06	0100	7.10	1,150
03-11	0400	5.09	342	06-17	0600	5.13	352
03-25	2100	4.94	306				

03366500 Muscatatuck River near Deputy, Ind.

LOCATION.—Lat 38°48'15", long 85°40'26", in SW 1/4 NE 1/4 sec.7, T.4 N., R.8 E., Jefferson County, on left bank at downstream side of highway bridge, 1.4 miles (2.3 km) northwest of Deputy, 1.9 miles (3.1 km) upstream from Coffee Creek, and 2.4 miles (3.9 km) downstream from confluence of Graham Creek and Big Creek.

DRAINAGE AREA.—293 sq mi (759 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: November 1947 to current year.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 541.17 ft (164.949 m) above mean sea level. Prior to June 22, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—25 years (1948 to current year), 334 cfs (9.459 cu m/s), 15.48 in/yr (393 mm/yr).

EXTREMES.—Current year: Maximum discharge, 9,660 cfs (274 cu m/s) Dec. 9, gage height, 20.09 ft (6.123 m); minimum daily, 2.1 cfs (0.059 cu m/s) Sept. 7, 8.

Period of record: Maximum discharge, 52,200 cfs (1,480 cu m/s) Jan. 21, 1959, from rating curve extended above 25,000 cfs (708 cu m/s) on basis of contracted-opening measurement of peak flow, gage height, 33.1 ft (10.09 m), from floodmarks; no flow at times most years.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1948. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	1,340	398	651	350	112	885	164	190	202	53	3.6
2	65	1,520	317	306	948	104	619	163	141	233	47	3.3
3	35	857	241	264	722	115	549	155	355	125	38	3.0
4	80	328	211	1,960	586	135	1,120	139	308	289	32	2.8
5	353	195	218	924	385	1,470	1,500	115	201	507	27	2.5
6	162	139	1,540	430	296	1,340	619	97	2,220	252	24	2.5
7	94	336	1,480	281	244	1,840	413	87	1,090	142	22	2.1
8	58	1,920	3,930	212	246	1,760	1,600	233	411	90	20	2.1
9	40	726	6,150	167	263	670	1,170	626	224	65	67	48
10	28	353	1,550	138	209	715	689	260	157	299	105	34
11	20	286	745	115	164	3,680	566	223	116	244	31	23
12	17	259	454	100	147	2,460	448	202	91	106	22	20
13	15	738	1,300	86	141	756	348	141	105	79	20	17
14	14	3,760	987	78	212	693	269	103	89	56	20	16
15	13	1,390	490	81	1,340	3,390	223	83	67	48	29	15
16	13	491	388	82	908	1,620	199	72	218	42	23	14
17	12	307	260	82	416	4,000	969	65	772	34	20	14
18	11	232	220	86	282	2,350	3,620	60	719	28	18	12
19	10	353	240	108	241	1,060	3,270	56	278	24	16	11
20	10	1,690	2,290	122	221	894	2,650	55	522	22	15	10
21	9.5	848	1,400	119	220	1,990	1,180	51	256	260	13	9.0
22	8.5	412	661	974	199	864	573	49	149	2,950	11	9.0
23	8.5	307	434	1,430	179	483	864	59	98	653	9.5	17
24	9.0	241	322	715	159	355	1,360	56	72	359	8.5	14
25	9.0	204	263	381	141	625	588	48	57	2,110	8.5	15
26	9.0	270	233	282	133	2,960	398	163	120	596	7.6	11
27	9.5	436	223	332	126	1,150	321	623	695	287	6.8	9.5
28	9.9	394	210	470	120	531	268	1,300	3,280	214	6.4	9.0
29	11	499	189	995	-----	617	221	691	645	126	5.6	8.1
30	11	423	177	530	-----	2,020	184	423	252	79	4.9	7.6
31	13	-----	504	328	-----	971	-----	265	-----	60	4.5	-----
TOTAL	1,294.9	21,254	28,025	12,829	9,598	41,730	27,683	6,827	13,898	10,581	735.3	365.1
MEAN	41.8	708	904	414	343	1,346	923	220	463	341	23.7	12.2
MAX	353	3,760	6,150	1,960	1,340	4,000	3,620	1,300	3,280	2,950	105	48
MIN	8.5	139	177	78	120	104	184	48	57	22	4.5	2.1
CFSM	.14	2.42	3.09	1.41	1.17	4.59	3.15	.75	1.58	1.16	.08	.04
IN.	.16	2.70	3.56	1.63	1.22	5.30	3.51	.87	1.76	1.34	.09	.05

CAL YR 1972 TOTAL 156,978.64 MEAN 429 MAX 11,000 MIN .30 CFSM 1.46 IN 19.93
WTR YR 1973 TOTAL 174,820.30 MEAN 479 MAX 6,150 MIN 2.1 CFSM 1.63 IN 22.20

PEAK DISCHARGE (BASE, 7,500 CFS).—Dec. 9 (0100) 9,660 cfs (20.09 ft).

WABASH RIVER BASIN

03366500 Muscatatuck River near Deputy, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT (MG/L)	SUS- PENDE SEDIMENT DIS- CHARGE (T/DAY)
NOV. 29...	1730	4.0	520	21	29
MAR. 22...	1245	7.0	784	52	110
APR. 19...	1300	16.0	2820	133	1010
AUG. 16...	1430	24.5	22	37	2.2

03366800 Quick Creek Reservoir near Austin, Ind.

LOCATION.--Lat 38°47'29", long 85°42'36", in NW 1/4 NE 1/4 sec.14, T.4 N., R.7 E., Scott County, in intake tower of reservoir on Quick Creek, 4.1 miles (6.6 km) upstream from White Oak Branch, and 5.7 miles (9.2 km) northeast of Austin.

DRAINAGE AREA.--12.0 sq mi (31.1 sq km).

PERIOD OF RECORD.--June 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 575.05 ft (175.275 m) above mean sea level (levels by Indiana Department of Natural Resources).

EXTREMES.--Current year: Maximum contents, 13,790 acre-ft (17.0 cu hm) Apr. 23, 24, gage height, 27.23 ft (8.300 m); minimum, 12,010 acre-ft (14.8 cu hm) Oct. 27, gage height, 25.01 ft (7.623 m).

Period of record: Maximum contents, 14,110 acre-ft (17.4 cu hm) Apr. 21, 1972, gage height, 27.64 ft (8.424 m); minimum, 3,380 acre-ft (4.17 cu hm) July 8, 1970, gage height, 9.11 ft (2.777 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by a 42-inch 1,067 mm diameter pipe. Minimum design capacity is 770 acre-ft (0.949 cu hm), gage height, -5.05 ft (-1.539 m). Normal pool capacity is 11,960 acre-ft (14.7 m), gage height, 24.95 ft (7.605 m). Capacity at emergency spillway, 14,760 acre-ft (18.2 cu hm), gage height, 28.45 ft (8.672 m), flood control pool capacity is 20,460 acre-ft (25.2 cu hm), gage height, 34.95 ft (10.653 m). Reservoir used for flood control, recreation, and low-flow augmentation. Reservoir put in operation on June 4, 1970.

Month-and gage height and contents, water year October 1972 to September 1973

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	25.20	12,160	-
Oct. 31.....	25.20	12,160	0
Nov. 30.....	25.94	12,750	+590
Dec. 31.....	25.79	12,630	-120
Calendar year 1972.....	-	-	+2,750
Jan. 31.....	-----	-----	-----
Feb. 28.....	-----	-----	-----
Mar. 31.....	26.77	13,420	-----
Apr. 30.....	26.86	13,490	+70
May 31.....	25.98	12,780	-710
June 30.....	26.25	13,000	+220
July 31.....	26.61	13,290	+290
Aug. 31.....	26.09	12,870	-420
Sept. 30.....	20.78	9,010	-3,860
Water year 1973.....	-	-	-3,150

WABASH RIVER BASIN

03368000 Brush Creek near Nebraska, Ind.

LOCATION.--Lat 39°04'13", long 85°29'10", in NW 1/4 NE 1/4 sec.11, T.7 N., R.9 E., Jennings County, on right bank at downstream side of county road bridge, 1.5 miles (2.4 km) northwest of Nebraska, 2.9 miles (4.7 km) northeast of Butlerville, and 3.6 miles (5.8 km) upstream from Brush Creek Dam.

DRAINAGE AREA.--11.4 sq mi (29.5 sq km).

PERIOD OF RECORD.--May 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 717.17 ft (218.593 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--18 years, 12.6 cfs (0.357 cu m/s), 15.01 in/yr (381 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,720 cfs (48.7 cu m/s) July 24, gage height, 8.52 ft (2.597 m); no flow Oct. 18, 19, Sept. 16-30.

Period of record: Maximum discharge, 3,440 cfs (97.4 cu m/s) May 24, 1968, gage height, 11.40 ft (3.475 m), from rating curve extended above 440 cfs (12.5 cu m/s) on basis of contracted-opening measurement of peak flow at gage height, 9.70 ft (2.957 m); no flow at times most years.

REMARKS.--Records poor.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	49	5.7	26	15	3.8	28	8.4	2.3	8.4	1.5	.16
2	.34	35	4.7	7.2	33	3.8	34	8.7	4.2	6.5	1.2	.16
3	.18	8.7	4.0	7.6	20	4.5	21	7.4	14	5.7	.93	.16
4	20	5.0	5.2	63	15	7.4	129	6.5	7.0	10	.76	.16
5	12	3.5	5.7	20	11	89	31	5.7	22	8.0	.68	1.2
6	1.9	2.8	200	15	8.0	18	18	5.5	57	5.0	.51	.51
7	.76	61	30	11	6.1	253	16	5.2	19	4.2	.43	.13
8	.60	25	160	7.0	6.3	29	66	46	6.2	3.7	.26	.08
9	.60	8.7	80	5.0	5.0	57	24	9.3	4.2	2.9	.23	.34
10	.60	7.0	55	3.4	4.3	35	27	8.7	3.5	3.1	.34	.34
11	.76	11	25	2.7	4.1	355	20	13	2.9	2.9	.34	.21
12	2.6	6.2	11	2.4	3.7	31	16	5.5	2.9	2.4	.26	.13
13	.51	115	58	2.6	3.2	18	12	4.0	2.8	2.0	.43	.13
14	.10	85	24	2.8	10	190	10	3.7	2.4	1.8	.76	.16
15	.05	14	10	3.1	41	57	9.0	3.1	94	1.6	.68	.05
16	.05	8.4	7.0	3.3	13	164	37	2.9	38	1.4	.43	0
17	.05	6.2	6.0	3.5	9.0	145	162	2.6	56	1.3	.34	0
18	0	5.0	4.6	4.0	8.2	50	267	2.4	10	1.2	.26	0
19	0	48	20	7.4	7.8	30	85	2.9	11	1.1	.23	0
20	.05	40	81	4.5	7.2	214	66	3.8	68	1.2	.21	0
21	.08	12	35	19	6.7	55	23	2.4	8.0	249	.18	0
22	.08	8.7	18	59	6.0	24	26	2.0	4.7	31	.18	0
23	.13	6.7	12	40	5.5	16	120	2.4	3.5	9.3	.18	0
24	.17	5.2	7.5	20	4.7	13	26	1.9	151	473	.23	0
25	.17	7.0	6.2	11	4.5	120	29	1.8	40	53	.23	0
26	.17	21	5.6	8.9	4.7	63	21	1.6	14	23	.23	0
27	.17	14	5.7	11	4.2	22	15	5.0	594	43	.23	0
28	.34	9.0	5.2	20	3.8	15	12	3.7	47	6.7	.21	0
29	.43	7.4	4.8	35	-----	134	9.7	2.9	19	3.3	.18	0
30	.43	6.0	4.5	21	-----	51	8.7	2.9	12	2.3	.18	0
31	.60	-----	35	8.6	-----	40	-----	3.5	-----	2.0	.16	-----
TOTAL	44.60	641.5	936.4	455.0	271.0	2,307.5	1,368.4	185.4	1,320.6	970.0	12.97	3.92
MEAN	1.44	21.4	30.2	14.7	9.68	74.4	45.6	5.98	44.0	31.3	.42	.13
MAX	20	115	200	63	41	355	267	46	594	473	1.5	1.2
MIN	0	2.8	4.0	2.4	3.2	3.8	8.7	1.6	2.3	1.1	.16	0
CFSM	.13	1.88	2.65	1.29	.85	6.53	4.00	.52	3.86	2.75	.04	.01
IN.	.15	2.09	3.06	1.48	.88	7.53	4.47	.60	4.31	3.17	.04	.01

CAL YR 1972 TOTAL 5,185.38 MEAN 14.2 MAX 470 MIN 0 CFSM 1.25 IN 16.92
WTR YR 1973 TOTAL 8,517.29 MEAN 23.3 MAX 594 MIN 0 CFSM 2.04 IN 27.79

PEAK DISCHARGE (BASE, 950 CFS)

NOTE.--No gage-height record Dec. 6
to Jan. 8 and Jan. 23 to Feb. 21.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	unknown	6.91	996	03-14	1815	7.11	1,070	07-21	1900	7.15	1,090
03-07	0930	7.73	1,340	04-18	7845	7.07	1,060	07-24	1815	8.52	1,720
03-11	0300	7.80	1,370	06-27	1215	8.34	1,630				

03369000 Vernon Fork near Butlerville, Ind.

LOCATION.--Lat 39°02'55", long 85°32'40", in NW 1/4 SE 1/4 sec.17, T.7 N., R.9 E., Jennings County, on left bank 0.3 mile (0.5 km) downstream from Muscatatuck State School dam, 1.2 miles (1.9 km) downstream from Brush Creek, and 2 miles (3 km) northwest of Butlerville.

DRAINAGE AREA.--85.9 sq mi (222.5 sq km).

PERIOD OF RECORD.--February 1942 to current year. Prior to October 1960, published as North Fork of Vernon Fork near Butlerville.

GAGE.--Water-stage recorder (revised). Datum of gage is 669.40 ft (204.033 m) above mean sea level. Prior to Aug. 19, 1942, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 92.5 cfs (2.620 cu m/s), 14.62 in/yr (371 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,390 cfs (181 cu m/s) July 24, gage height, 13.93 ft (4.246 m); minimum daily, 0.43 cfs Sept. 19.

Period of record: Maximum discharge, 26,200 cfs (742 cu m/s) Jan. 21, 1959, gage height, 25.41 ft (7.745 m), from rating curve extended above 10,000 cfs (283 cu m/s) on basis of slope-area measurement of peak flow; no flow at times most years.

REMARKS.--Records good. Water supply for the Muscatatuck State School is diverted and the sewage effluent returned above station. Flow regulated by Brush Creek Reservoir.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	421	44	110	141	31	202	45	24	54	20	1.0
2	14	427	39	73	241	31	158	45	25	42	16	1.3
3	7.4	118	36	127	146	34	138	41	61	35	13	1.8
4	24	53	43	538	97	42	578	36	57	295	11	1.4
5	148	37	50	131	76	412	250	33	199	146	9.1	4.4
6	34	32	1,990	84	65	158	131	30	292	53	7.7	15
7	20	292	235	61	56	1,520	107	29	179	37	6.3	2.7
8	14	352	1,500	51	58	316	334	511	68	29	5.6	1.3
9	9.7	92	745	40	48	367	161	148	41	24	5.1	4.6
10	6.4	63	271	32	39	424	174	81	33	24	5.1	3.0
11	5.9	94	127	26	35	2,260	168	78	27	22	4.7	1.9
12	15	64	95	23	33	337	131	52	24	18	4.7	1.2
13	12	533	583	21	34	158	92	41	32	15	5.4	1.0
14	9.7	1,070	151	20	47	587	69	36	22	13	6.3	1.1
15	8.0	163	97	22	271	665	59	33	105	13	5.6	1.0
16	7.0	81	75	24	120	488	66	30	136	12	5.1	.86
17	6.0	59	55	26	67	1,280	685	28	900	11	5.1	.80
18	5.5	48	54	30	59	388	1,500	26	120	10	3.9	.75
19	4.0	131	84	39	55	247	578	27	59	9.1	2.9	.43
20	3.0	340	760	36	58	760	533	34	484	9.1	2.8	.51
21	2.4	108	226	34	42	446	182	28	101	1,050	1.8	.55
22	1.8	71	136	304	45	166	153	23	48	310	1.2	.75
23	2.9	57	95	244	41	110	795	22	37	50	1.2	.75
24	2.5	47	77	103	37	86	259	20	168	1,880	1.5	.70
25	2.6	43	67	73	35	412	161	17	250	710	1.3	12
26	2.5	131	64	65	35	770	141	16	56	200	1.2	9.7
27	2.5	125	64	107	35	187	97	27	2,130	149	1.3	5.1
28	3.2	72	55	214	33	120	75	36	470	79	1.2	3.6
29	3.5	54	52	253	-----	484	58	30	143	45	1.0	4.3
30	3.0	46	53	97	-----	506	50	31	86	28	1.0	3.8
31	3.5	-----	331	76	-----	244	-----	30	-----	25	1.0	-----
TOTAL	415.0	5,224	8,254	3,084	2,049	14,036	8,085	1,664	6,377	5,397.2	159.1	87.30
MEAN	13.4	174	266	99.5	73.2	453	270	53.7	213	174	5.13	2.91
MAX	148	1,070	1,990	538	271	2,260	1,500	511	2,130	1,880	20	15
MIN	1.8	32	36	20	33	31	50	16	22	9.1	1.0	.43
CFSM	.16	2.03	3.10	1.16	.85	5.27	3.14	.63	2.48	2.03	.06	.03
IN.	.18	2.26	3.57	1.34	.89	6.08	3.50	.72	2.76	2.34	.07	.04

CAL YR 1972 TOTAL 39,405.64 MEAN 108 MAX 2,970 MIN .26 CFSM 1.26 IN 17.07
WTR YR 1973 TOTAL 54,831.60 MEAN 150 MAX 2,260 MIN .43 CFSM 1.75 IN 23.75

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	1100	12.67	5,470	07-21	1900	11.32	4,520
03-07	1300	10.99	4,290	07-24	2200	13.93	6,390
03-11	0700	11.61	4,730				

03369500 Vernon Fork at Vernon, Ind.

LOCATION.--Lat 38°58'34", long 85°37'13", in NW 1/4 SE 1/4 sec.10, T.6 N., R.8 E., Jennings County, at downstream end of left bank bridge pier, 1 mile (2 km) southwest of Vernon, and 3.1 miles (5.0 km) downstream from South Fork Vernon Fork.

DRAINAGE AREA.--198 sq mi (513 sq km).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 587.30 ft (179.009 m) above mean sea level, supplementary adjustment of 1944 (levels by Indiana Flood Control and Water Resources Commission) Prior to Jan. 14, 1940, and June 23 to Nov. 13, 1967, nonrecording gage, and Jan. 14, 1940, to June 22, 1967, water-stage recorder at site on right bank at same datum.

AVERAGE DISCHARGE.--34 years, 216 cfs (6.117 cu m/s), 14.81 in/yr (376 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,580 cfs (271 cu m/s) July 25, gage height, 15.06 ft (4.590 m); minimum daily, 2.4 cfs (0.068 cu m/s) Sept. 4.

Period of record: Maximum discharge, 56,800 cfs (1,610 cu m/s) Jan. 21, 1959, from rating curve extended above 24,000 cfs (680 cu m/s) on basis of slope-area measurement of peak flow, gage height, 32.83 ft (10.007 m), from high-water mark. No flow at times in 1940, 1943-44.

REMARKS.--Records good. Diversion above station for municipal water supply of North Vernon and Vernon. Part of this diversion returned above gage as sewage effluent by North Vernon Sewage Treatment Plant.

REVISIONS (WATER YEARS).--WSP 1335: 1940, 1953. WSP 1909: 1952-53. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	622	129	353	257	77	625	161	88	177	94	4.1
2	31	792	112	197	693	76	456	161	68	134	67	3.7
3	16	436	97	259	466	80	408	147	238	112	51	3.1
4	18	159	91	1,340	303	98	1,220	125	177	210	42	2.4
5	233	104	112	411	221	929	823	109	333	541	33	3.2
6	157	77	2,800	235	185	557	395	98	650	181	27	29
7	66	189	723	167	157	2,480	290	92	742	107	24	21
8	34	1,090	2,320	132	155	1,020	905	815	259	74	20	8.9
9	22	280	2,330	90	149	525	473	473	163	56	18	25
10	15	169	716	67	112	1,130	440	221	120	52	17	21
11	13	191	368	55	97	4,340	446	264	95	62	44	11
12	13	177	233	50	91	1,050	336	177	79	41	25	8.2
13	18	395	1,220	45	91	466	252	127	77	31	27	6.4
14	16	2,640	480	43	145	962	195	104	85	26	21	6.0
15	12	541	280	57	773	2,500	167	89	138	25	21	5.6
16	11	259	212	59	417	999	161	79	1,100	23	18	5.4
17	11	181	147	62	210	3,040	1,220	69	1,400	20	15	4.4
18	8.6	129	140	68	167	1,170	3,530	60	450	18	14	4.2
19	6.8	221	173	94	153	720	1,650	57	228	15	12	4.1
20	4.8	1,070	1,660	106	155	1,380	1,550	60	1,130	14	11	3.9
21	4.1	374	668	89	149	1,680	601	80	371	1,470	9.6	3.7
22	3.1	221	383	746	129	531	420	57	210	2,190	8.2	3.2
23	4.8	173	264	723	115	342	1,420	57	153	319	7.1	2.7
24	4.2	136	202	328	103	257	762	51	115	1,680	6.0	2.9
25	4.4	120	169	208	94	466	450	44	804	3,180	5.8	2.7
26	2.7	262	153	171	91	2,040	440	41	255	515	5.4	3.1
27	4.2	386	159	245	91	557	306	80	4,400	417	5.2	4.2
28	5.2	235	134	420	85	331	242	147	1,780	245	5.4	7.9
29	5.8	189	124	788	-----	979	197	177	436	153	5.6	6.8
30	4.8	147	124	288	-----	1,920	173	115	252	106	5.0	7.9
31	5.6	-----	731	212	-----	653	-----	103	-----	88	4.4	-----
TOTAL	820.1	11,965	17,454	8,108	5,854	33,355	20,553	4,440	16,396	12,282	668.7	225.7
MEAN	26.5	399	563	262	209	1,076	685	143	547	396	21.6	7.52
MAX	233	2,640	2,800	1,340	773	4,340	3,530	815	4,400	3,180	94	29
MIN	2.7	77	91	43	85	76	161	41	68	14	4.4	2.4
CFSM	.13	2.02	2.84	1.32	1.06	5.43	3.46	.72	2.76	2.00	.11	.04
IN.	.15	2.25	3.28	1.52	1.10	6.27	3.86	.83	3.08	2.31	.13	.04

CAL YR 1972 TOTAL 92,365.12 MEAN 252 MAX 6,370 MIN .50 CFSM 1.27 IN 17.35
WTR YR 1973 TOTAL 132,121.50 MEAN 362 MAX 4,400 MIN 2.4 CFSM 1.83 IN 24.82

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	1500	12.43	6,830	04-18	1600	11.87	6,290
12-08	2200	12.29	6,690	06-27	1800	14.07	8,460
03-11	1200	13.61	8,010	07-21	2400	12.39	6,790
03-15	0200	11.67	6,070	07-25	0200	15.06	9,580

03371500 East Fork White River near Bedford, Ind.

LOCATION.—Lat 38°46'10", long 86°24'30", in SW 1/4 NE 1/4 sec.21, T.4 N., R.1 E., Lawrence County, on downstream side of center pier of bridge on county road, 0.4 mile (0.6 km) upstream from Mill Creek, 2.9 miles (4.7 km) downstream from Sugar Creek, 3.9 miles (6.3 km) northeast of Mitchell, and 7.8 miles (12.6 km) southeast of Bedford.

DRAINAGE AREA.—3,861 sq mi (10,000 sq km).

PERIOD OF RECORD.—May 1939 to current year (high-water records only October 1943 to September 1957).

GAGE.—Water-stage recorder. Datum of gage is 473.59 ft (144.350 m) above mean sea level. Prior to Feb. 6, 1940, nonrecording gage, and Feb. 6, 1940, to Sept. 24, 1957, water-stage recorder, at site 9.7 miles (15.6 km) downstream at datum 4.39 ft (1.338 m) lower (now used as an auxiliary gage).

AVERAGE DISCHARGE.—20 years (1939-43, 1957-73), 3,628 cfs (102.7 cu m/s), 11.51 in/yr (292 mm/yr).

EXTREMES.—Current year: Maximum discharge, 25,200 cfs (714 cu m/s) Mar. 15, gage height, 23.89 ft (7.282 m); minimum, 530 cfs (15.0 cu m/s) Oct. 29-31.

Period of record: Maximum discharge, 75,700 cfs (2,140 cu m/s) Mar. 12, 1964; maximum gage height, 35.97 ft (10.964 m) May 11, 1961; minimum daily discharge, 138 cfs (3.91 cu m/s) Sept. 7, 1941.

Flood in March 1913 reached a stage of 47.5 ft (14.48 m), from floodmark determined by Corps of Engineers, discharge, 155,000 cfs (4,390 cu m/s) at former site.

REMARKS.—Records fair.

REVISIONS.—WSP 2109: Drainage area. Revised figures of discharge, in cubic feet per second, for the Water Year 1972, superseding those published in WRD Ind. 1972, are given herein:

Feb. 5.....	1,700	Feb. 10.....	1,350	Mar. 8.....	11,800
Feb. 6.....	1,550	Feb. 11.....	1,300	Mar. 9.....	9,860
Feb. 7.....	1,500	Mar. 5.....	10,400	Mar. 10.....	7,690
Feb. 8.....	1,450	Mar. 6.....	11,900	Mar. 11.....	5,710
Feb. 9.....	1,400	Mar. 7.....	12,600		

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
February, 1972	79,700	5,270	1,290	2,748	0.71	0.77
March, 1972	191,400	12,600	2,710	6,174	1.60	1.85
Water Year 1972	1,208,304			3,301	.85	11.65

CORRECTION.—AVERAGE DISCHARGE for 19 years was not published in WRD Ind. 1972. It should read.—19 years (1939-43, 1957-72), 3,517 cfs (99.66 cu m/s), 11.16 in/yr (283 mm/yr).

03371500 East Fork White River near Bedford, Ind.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,080	783	4,980	5,300	6,640	2,460	12,900	6,660	2,690	9,400	4,960	980
2	1,040	1,230	4,510	6,330	6,120	2,380	11,900	5,540	2,480	9,730	3,820	944
3	1,060	2,590	4,100	6,490	6,570	2,320	11,900	4,980	2,700	8,310	3,240	920
4	1,060	4,260	3,750	6,730	7,640	2,300	11,800	4,590	2,750	5,350	2,840	890
5	992	5,180	3,420	7,360	8,210	2,400	11,300	4,240	3,420	4,070	2,540	866
6	944	5,290	3,760	8,360	7,980	3,220	10,600	3,890	5,060	4,280	2,300	849
7	1,060	5,430	5,760	8,920	6,950	5,030	10,300	3,580	6,360	4,570	2,140	849
8	1,110	5,060	8,200	8,220	5,850	6,740	10,300	3,770	7,790	4,210	2,010	878
9	980	5,030	10,800	6,220	5,090	7,740	10,200	4,590	9,270	3,450	1,900	932
10	878	5,980	11,900	4,730	4,600	8,890	10,100	5,540	10,300	2,920	1,830	1,220
11	838	6,240	12,900	3,920	4,150	11,100	9,970	5,520	10,100	3,610	1,770	1,280
12	745	5,840	14,300	3,630	3,720	12,500	9,490	4,510	8,180	3,780	1,770	980
13	701	5,520	16,400	3,470	3,380	15,500	8,630	3,850	5,500	2,840	1,740	844
14	670	6,630	15,000	3,000	3,210	21,400	7,370	3,410	4,170	2,280	1,670	794
15	645	7,340	13,700	2,830	3,710	24,900	6,350	3,060	3,650	2,010	1,750	756
16	635	8,480	13,500	2,680	5,300	24,000	5,660	2,800	3,580	1,830	2,040	734
17	625	9,840	12,100	2,630	6,540	22,900	5,780	2,590	3,380	1,700	2,090	734
18	615	11,300	11,000	2,580	6,440	21,700	8,730	2,450	3,980	1,590	2,100	756
19	605	12,400	8,320	2,600	5,290	20,800	11,600	2,330	5,880	1,490	1,930	739
20	595	12,200	7,420	2,680	4,440	21,500	13,000	2,230	6,830	1,430	1,750	706
21	575	10,600	7,970	2,740	3,990	22,000	15,400	2,140	6,780	6,520	1,590	690
22	565	9,320	8,950	3,290	3,670	21,200	16,800	2,130	6,840	11,200	1,470	675
23	555	8,910	9,700	4,890	3,430	19,300	16,900	2,350	5,930	9,040	1,380	680
24	540	7,840	9,750	6,620	3,210	16,400	16,400	2,290	4,390	9,210	1,340	670
25	535	6,330	8,770	7,650	3,010	13,400	16,600	2,150	3,450	10,400	1,270	660
26	535	5,380	7,190	7,560	2,840	11,600	18,800	2,030	3,140	10,900	1,210	660
27	535	5,130	6,120	6,300	2,680	10,700	19,700	1,980	3,490	11,200	1,160	734
28	535	5,270	5,570	5,390	2,560	11,200	17,100	2,280	3,700	11,700	1,110	767
29	530	5,390	5,130	5,570	-----	13,500	12,800	3,060	6,310	11,800	1,080	783
30	530	5,320	4,700	6,410	-----	14,400	9,100	3,390	8,340	11,000	1,050	789
31	550	-----	4,620	7,110	-----	13,800	-----	3,080	-----	7,810	1,010	-----
TOTAL	22,863	196,113	264,290	162,210	137,220	407,280	357,480	107,010	160,440	189,630	59,860	24,759
MEAN	738	6,537	8,525	5,233	4,901	13,140	11,920	3,452	5,348	6,117	1,931	825
MAX	1,110	12,400	16,400	8,920	8,210	24,900	19,700	6,660	10,300	11,800	4,960	1,280
MIN	530	783	3,420	2,580	2,560	2,300	5,660	1,980	2,480	1,430	1,010	660
CFSM	.19	1.69	2.21	1.36	1.27	3.40	3.09	.89	1.39	1.58	.50	.21
IN.	.22	1.89	2.55	1.56	1.32	3.92	3.44	1.03	1.55	1.83	.58	.24

CAL YR 1972 TOTAL 1,568,151 MEAN 4,285 MAX 32,500 MIN 400 CFSM 1.11 IN 15.11
WTR YR 1973 TOTAL 2,089,155 MEAN 5,724 MAX 24,900 MIN 530 CFSM 1.48 IN 20.13

PEAK DISCHARGE (BASE, 13,000 CFS).—Dec. 13 (1000) 16,600 cfs (19.20 ft at 1200 Dec. 13); Mar. 15 (1600) 25,200 cfs (23.89 ft at 2400 Mar. 15); Mar. 30 (1400) 14,500 cfs (17.69 ft at 1800 Mar. 30); Apr. 27 (0400) 20,000 cfs (21.42 ft at 0800 Apr. 27).

03371520 Back Creek at Leesville, Ind.

LOCATION.--Lat 38°50'48", long 86°18'06", in SW 1/4 SE 1/4 sec.21, T.5 N., R.2 E., Lawrence County, on left bank at downstream side of county road bridge, 0.9 mile (1.4 km) west of Leesville, 2.5 miles (4.0 km) upstream from Jones Defeat Hollow and 7 miles (11 km) above mouth.

DRAINAGE AREA.--24.1 sq mi (62.4 sq km).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft (175.260 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 15,300 cfs (433 cu m/s) July 21, gage height, 14.0 ft (4.27 m), from floodmarks, from rating curve as explained below; minimum daily, 0.13 cfs (0.004 cu m/s) Sept. 2-6, 17-30.

Period of record: Maximum discharge, 15,300 cfs (433 cu m/s) July 21, 1973, gage height, 14.0 ft (4.27 m), from floodmarks, from rating extended above 550 cfs (15.6 cu m/s) on basis of step-backwater analysis and contracted-opening and flow-over-road measurement of peak flow; no flow for many days in October 1970 and July 1971.

Flood in 1913 reached a stage of 18.1 ft (5.52 m) from information by local resident.

REMARKS.--Records fair.

REVISIONS.--WRD Ind. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	113	29	39	75	14	59	33	4.3	9.0	5.4	.18
2	10	160	23	31	86	14	54	30	44	7.5	3.4	.13
3	6.0	59	19	177	75	17	51	24	42	6.5	2.7	.13
4	5.4	35	17	174	61	17	61	20	59	15	1.8	.13
5	5.4	24	16	79	51	39	56	17	450	8.0	1.3	.13
6	4.3	18	165	53	41	30	50	15	490	5.5	1.1	.13
7	3.4	69	71	39	34	118	50	13	113	4.5	.94	.18
8	2.7	77	366	30	31	73	106	77	56	3.7	.94	.18
9	2.4	48	222	27	26	149	73	38	38	3.0	1.3	1.1
10	1.8	38	108	25	24	192	68	31	27	200	7.6	.77
11	1.8	32	66	20	22	750	61	24	21	25	1.8	.40
12	2.1	26	64	17	20	165	59	20	17	4.5	1.1	.31
13	2.1	358	195	15	19	88	51	17	15	3.8	1.1	.24
14	1.8	171	84	14	53	280	47	15	12	10	1.1	.24
15	1.8	104	60	12	102	204	42	13	69	4.5	1.6	.18
16	1.6	64	48	11	57	165	51	11	25	3.2	1.3	.18
17	1.6	50	66	11	45	378	111	9.3	17	2.5	.94	.13
18	1.3	38	57	12	38	152	558	7.6	13	2.0	.77	.13
19	1.1	56	152	30	30	97	322	6.8	9.3	2.5	.77	.13
20	1.1	66	240	19	26	243	252	6.0	8.4	4.4	.63	.13
21	1.1	50	102	79	23	228	106	4.8	7.5	5,000	.40	.13
22	1.3	44	68	162	21	118	219	4.8	6.5	500	.31	.13
23	1.6	35	51	121	20	81	306	6.0	5.6	50	.31	.13
24	1.6	30	41	69	18	66	136	4.3	5.0	60	.31	.13
25	1.6	35	34	50	17	174	131	3.8	4.1	40	.31	.13
26	1.6	62	30	41	17	210	84	3.4	4.0	23	.31	.13
27	1.6	66	25	41	15	102	57	9.3	200	25	.31	.13
28	1.8	50	24	54	15	75	44	7.6	100	14	.24	.13
29	1.8	38	21	57	-----	64	36	6.8	25	9.3	.24	.13
30	1.8	32	22	44	-----	51	33	8.4	11	6.0	.24	.13
31	17	-----	56	36	-----	64	-----	5.4	-----	4.8	.24	-----
TOTAL	107.5	2,048	2,542	1,589	1,062	4,418	3,334	492.3	1,898.7	6,057.2	40.81	6.43
MEAN	3.47	68.3	82.0	51.3	37.9	143	111	15.9	63.3	195	1.32	.21
MAX	17	358	366	177	102	750	558	77	490	5,000	7.6	1.1
MIN	1.1	18	16	11	15	14	33	3.4	4.0	2.0	.24	.13
CFSM	.14	2.83	3.40	2.13	1.57	5.93	4.61	.66	2.63	8.09	.05	.009
IN.	.17	3.16	3.92	2.45	1.64	6.82	5.15	.76	2.93	9.35	.06	.009

CAL YR 1972 TOTAL 14,979.71 MEAN 40.9 MAX 925 MIN .09 CFSM 1.70 IN 23.12
WTR YR 1973 TOTAL 23,595.94 MEAN 64.6 MAX 5,000 MIN .13 CFSM 2.68 IN 36.42

PEAK DISCHARGE (BASE, 400 CFS)

NOTE.--No gage-height record
June 21 to July 26.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	1500	5.46	1,160	03-11	0130	5.84	1,350	04-22	1300	4.57	680
12-08	1330	4.67	765	03-14	1700	5.03	945	06-05	1830	7.00	1,980
12-13	0145	3.93	422	03-17	0115	4.28	571	06-15	1500	4.03	462
12-19	2300	4.42	640	03-20	1630	4.18	526	07-21	1100	14.00	15,300
01-03	1915	4.53	695	04-18	0815	5.81	1,340				

03371650 North Fork Salt Creek at Nashville, Ind.

LOCATION.—Lat 39°12'06", long 86°14'51", in NW 1/4 SW 1/4 sec.19, T.9 N., R.3 E., Brown County, on right bank 90 ft (27 m) downstream from bridge on State Highway 46, 800 ft (244 m) downstream from Greasy Creek, and 0.4 mile (0.6 km) south of center of Nashville.

DRAINAGE AREA.—76.1 sq mi (197.1 sq km).

PERIOD OF RECORD.—July 1962 to current year.

GAGE.—Water-stage recorder. Datum of gage is 579.58 ft (176.656 m) above mean sea level. Prior to Sept. 16, 1964, nonrecording gage at site 90 ft (27 m) upstream at same datum.

AVERAGE DISCHARGE.—11 years, 75.9 cfs (2.149 cu m/s), 13.54 in/yr (344 mm/yr).

EXTREMES.—Current year: Maximum discharge, 3,140 cfs (88.9 cu m/s) Mar. 11, gage height, 11.63 ft (3.545 m); minimum daily, 1.9 cfs (0.054 cu m/s) Sept. 1, 6, 7.

Period of record: Maximum discharge, 7,500 cfs (212 cu m/s) Mar. 4, 1963; maximum gage height, 16.00 ft (4.877 m) May 24, 1968; no flow at times most years.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	175	45	65	146	33	261	89	34	45	22	1.9
2	7.6	471	36	53	326	32	207	83	27	32	18	1.7
3	5.3	134	31	176	270	36	169	74	39	270	15	1.4
4	13	61	30	469	205	36	217	62	80	280	12	1.3
5	24	40	29	214	161	45	219	52	358	131	11	1.0
6	14	29	603	120	128	48	175	45	519	62	9.0	.90
7	9.3	79	241	90	100	113	152	41	246	38	7.9	.70
8	6.9	143	725	70	85	137	288	145	119	26	6.9	.80
9	5.5	75	536	58	70	568	266	121	73	20	6.6	.80
10	4.7	70	250	48	62	615	235	85	50	26	7.2	.80
11	4.5	41	158	33	56	1,870	203	71	36	26	6.9	.80
12	3.8	32	146	28	52	480	190	55	28	16	6.6	.80
13	5.5	798	429	24	50	264	154	45	32	12	98	1.0
14	5.5	823	237	24	74	291	130	37	24	10	44	1.1
15	5.3	210	150	24	172	345	109	31	22	9.3	31	1.2
16	4.9	125	105	24	134	250	119	27	38	7.9	22	1.0
17	4.5	75	90	24	107	750	262	24	64	6.9	17	1.0
18	4.3	57	74	26	95	442	952	21	51	6.1	13	1.0
19	4.5	74	95	44	79	394	568	18	33	5.3	11	.70
20	5.3	136	248	37	71	461	613	18	104	5.5	9.0	.70
21	11	101	181	64	63	427	328	15	55	493	7.2	.60
22	11	80	137	412	54	252	710	14	35	333	5.8	.60
23	12	63	107	364	51	178	1,220	15	25	98	4.9	.50
24	11	51	88	194	46	143	543	13	25	237	4.5	.70
25	11	48	74	136	42	381	341	11	36	266	4.1	.49
26	12	72	66	107	41	808	279	11	21	158	3.8	.55
27	14	80	57	100	38	356	207	20	755	104	3.1	.49
28	16	70	51	113	35	232	152	30	284	64	2.7	.49
29	17	57	46	152	-----	196	121	38	113	42	2.5	.55
30	17	51	44	119	-----	180	100	64	68	32	2.2	.43
31	22	-----	71	100	-----	235	-----	48	-----	26	2.1	-----
TOTAL	306.4	4,321	5,180	3,512	2,813	10,598	9,490	1,423	3,394	2,888.0	417.0	26.00
MEAN	9.88	144	167	113	100	342	316	45.9	113	93.2	13.5	.87
MAX	24	823	725	469	326	1,870	1,220	145	755	493	98	1.9
MIN	3.8	29	29	24	35	32	100	11	21	5.3	2.1	.43
CFSM	.13	1.89	2.19	1.48	1.31	4.49	4.15	.60	1.48	1.22	.18	.01
IN.	.15	2.11	2.53	1.72	1.38	5.18	4.64	.70	1.66	1.41	.20	.01

CAL YR 1972 TOTAL 31,069.41 MEAN 84.9 MAX 2,910 MIN 0 CFSM 1.12 IN 15.19
WTR YR 1973 TOTAL 44,368.40 MEAN 122 MAX 1,870 MIN .43 CFSM 1.60 IN 21.69

PEAK DISCHARGE (BASE, 1,800 CFS, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	2200	10.31	2,300	04-18	1300	9.42	1,870
03-11	1000	11.63	3,140				

03372300 Stephens Creek near Bloomington, Ind.

LOCATION.—Lat 39°10'11", long 86°25'07", in NE 1/4 NW 1/4 sec.4, T.8 N., R.1 E., Monroe County, on downstream side of right pier of bridge on State Highway 46, 0.2 mile (0.3 km) downstream from Kerr Creek, 4.0 miles (6.4 km) west of Belmont, and 6.1 miles (9.8 km) east of Bloomington.

DRAINAGE AREA.—10.9 sq mi (28.2 sq km).

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 550.00 ft (167.640 m) above mean sea level.

EXTREMES.—Current year: Maximum discharge, 640 cfs (18.1 cu m/s) Nov. 13, gage height, 10.20 ft (3.109 m); no flow Sept. 24, 26-30.

Period of record: Maximum discharge, 691 cfs (19.6 cu m/s) Apr. 16, 1972, gage height, 10.54 ft (3.213 m); no flow at times each year.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	58	10	19	22	4.6	52	12	4.0	2.3	1.1	.06
2	6.1	197	8.9	15	33	4.6	37	13	3.3	2.0	.88	.06
3	4.0	32	8.0	56	31	5.7	27	11	4.2	1.5	.78	.06
4	15	16	7.7	77	25	5.9	34	8.9	9.0	1.2	.58	.06
5	23	10	7.1	38	21	16	30	7.4	20	1.5	.58	.06
6	8.9	8.0	27	23	16	14	25	6.5	60	1.1	.49	.06
7	5.9	41	21	17	14	22	22	5.9	29	.88	.40	.06
8	4.4	41	92	13	12	20	26	19	17	.58	.32	.08
9	3.3	22	79	10	11	97	25	13	10	.58	.40	.13
10	2.5	17	39	8.8	9.6	84	26	11	6.5	.88	.68	.10
11	2.0	15	24	7.8	8.4	254	25	8.3	4.4	.68	.40	.08
12	1.6	12	28	6.6	7.6	73	25	6.3	3.5	.40	.32	.06
13	1.7	222	77	5.8	7.1	42	21	5.2	3.0	.49	.49	.06
14	1.6	150	39	5.0	18	37	17	4.4	2.2	.40	.68	.18
15	1.5	44	27	4.4	27	35	15	3.7	2.2	.49	.68	.10
16	1.3	26	19	4.4	21	34	16	3.3	2.8	.32	.49	.04
17	1.3	18	15	4.4	18	114	18	2.8	2.2	.32	.40	.06
18	1.3	13	11	5.0	15	67	91	2.6	1.7	.25	.32	.04
19	1.2	18	17	7.4	12	48	99	2.5	1.5	.18	.25	.04
20	1.2	23	30	5.5	11	70	124	2.2	1.3	.25	.25	.03
21	1.2	18	25	17	8.9	67	61	1.9	1.1	38	.18	.03
22	1.3	15	20	53	8.0	41	139	1.7	1.0	15	.18	.02
23	2.0	13	16	48	7.4	29	210	1.7	.78	5.0	.13	.02
24	2.2	11	14	29	6.3	22	86	1.5	.88	8.9	.18	0
25	2.2	12	12	21	5.9	90	53	1.5	1.7	5.2	.32	.02
26	1.9	18	11	17	5.7	112	39	1.3	1.1	3.7	.08	0
27	1.9	19	9.2	15	5.0	56	29	1.3	59	2.8	.06	0
28	1.9	16	8.0	16	4.8	37	21	2.0	14	1.9	.06	0
29	2.0	13	7.4	17	-----	33	16	3.1	6.1	1.3	.06	0
30	2.0	12	8.9	15	-----	31	13	7.2	4.0	1.3	.06	0
31	3.0	-----	25	14	-----	57	-----	5.4	-----	1.3	.10	-----
TOTAL	120.4	1,130.0	743.2	595.1	391.7	1,622.8	1,422	177.6	277.46	100.70	11.90	1.51
MEAN	3.88	37.7	24.0	19.2	14.0	52.3	47.4	5.73	9.25	3.25	.38	.050
MAX	23	222	92	77	33	254	210	19	60	38	1.1	.18
MIN	1.2	8.0	7.1	4.4	4.8	4.6	13	1.3	.78	.18	.06	0
CFSM	.36	3.46	2.20	1.76	1.28	4.80	4.35	.53	.85	.30	.03	.005
IN.	.41	3.86	2.54	2.03	1.34	5.54	4.85	.61	.95	.34	.04	.005

CAL YR 1972 TOTAL 4,950.07 MEAN 13.5 MAX 242 MIN .03 CFSM 1.24 IN 16.89
WTR YR 1973 TOTAL 6,594.37 MEAN 18.1 MAX 254 MIN 0 CFSM 1.66 IN 22.51

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-04	2300	5.97	155	01-03	1900	6.76	225	04-19	2300	7.05	270
11-02	0400	10.02	613	03-11	0700	8.02	377	04-22	1200	7.57	328
11-13	2100	10.20	640	03-25	2100	6.09	168	06-27	0900	6.22	181
12-08	1400	6.16	165								

WABASH RIVER BASIN

03372400 Monroe Lake near Harrodsburg, Ind.

LOCATION.--Lat 39°00'24", long 86°30'56", in SW 1/4 SW 1/4 sec.27, T.7 N., R.1 W., Monroe County, in discharge tower of reservoir on Salt Creek, 1.1 miles (1.8 km) upstream from Clear Creek, 2.2 miles (3.5 km) southeast of Harrodsburg, and 25.9 miles (41.7 km) upstream from mouth.

DRAINAGE AREA.--432 sq mi (1,119 sq km).

PERIOD OF RECORD.--April 1966 to current year. Prior to September 1970 published as Monroe "Reservoir".

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 348,700 acre-ft (430 cu hm) May 2, elevation, 550.60 ft (167.823 m); minimum, 172,100 acre-ft (212 cu hm) Oct. 31, elevation, 537.04 ft (163.690 m).

Period of record: Maximum contents, 348,700 acre-ft (430 cu hm) May 2, 1973, elevation, 550.60 ft (167.823 m); minimum, 149,500 acre-ft (184 cu hm) Nov. 7, 1966, elevation, 534.77 ft (163.000 m).

REMARKS.--Reservoir is formed by earth and rock-fill dam. Releases normally controlled by three gates, 3.75 ft (1.143 m) wide and 12.0 ft (3.66 m) high, in semi-elliptical concrete conduit through dam. Minimum design capacity is 22,300 acre-ft (27.5 cu hm), elevation, 515 ft (157.0 m). Capacity at uncontrolled spillway elevation, 556 ft (169.5 m) is 446,000 acre-ft (550 cu hm). Reservoir is used for flood control and recreation. Reservoir put in operation on Apr. 26, 1966.

COOPERATION.--Records furnished by Corps of Engineers.

Month-and elevation and contents, water year October 1972 to September 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	537.33	175,100	-
Oct. 31.....	537.15	173,300	-1,800
Nov. 30.....	540.30	208,000	+34,700
Dec. 31.....	541.16	218,100	+10,100
Calendar year 1972.....	-	-	+34,700
Jan. 31.....	538.06	182,900	-35,200
Feb. 28.....	538.01	182,400	-500
Mar. 31.....	547.06	295,400	+113,000
Apr. 30.....	550.51	347,200	+51,800
May 31.....	542.63	236,000	-111,200
June 30.....	538.58	188,500	-47,500
July 31.....	538.40	186,600	-1,900
Aug. 31.....	537.65	178,500	-8,100
Sept. 30.....	537.10	172,700	-5,800
Water year 1973.....	-	-	-2,400

03372500 Salt Creek near Harrodsburg, Ind.

LOCATION.—Lat 39°00'16", long 86°30'31", in NE 1/4 NW 1/4 sec.34, T.7 N., R.1 W., Monroe County, on right bank 1,300 ft (396 m) downstream from Monroe Lake, 0.9 mile (1.4 km) upstream from Clear Creek, 2.2 miles (3.5 km) southeast of Harrodsburg, and 25.1 miles (40.4 km) upstream from mouth.

DRAINAGE AREA.—432 sq mi (1,119 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: May 1955 to current year.

WATER TEMPERATURE: August 1966 to current year.

GAGE.—Water-stage recorder with temperature attachment. Datum of gage is 480.00 ft (146.304 m) above mean sea level (levels by Corps of Engineers)¹. Prior to Oct. 1, 1960, nonrecording gage at site 3,500 ft (1,070 m) upstream at datum 2.41 ft (0.735 m) higher.

AVERAGE DISCHARGE.—18 years, 476 cfs (13.48 cu m/s), 14.96 in/yr (380 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	51	855	1,180	875	95	232	240	2,240	883	560	51
2	50	52	486	1,180	875	95	232	242	2,220	1,210	555	51
3	50	52	375	893	875	95	1,010	1,190	2,220	1,060	378	51
4	50	52	445	212	875	162	1,730	2,010	2,200	556	95	51
5	50	52	278	215	1,070	316	1,840	2,120	2,180	805	52	51
6	51	52	464	215	1,700	392	2,240	2,120	1,460	786	52	51
7	51	52	573	215	1,260	610	2,260	2,120	785	240	52	50
8	51	52	390	215	875	673	2,040	2,110	564	146	52	50
9	52	52	203	215	328	561	2,040	2,100	216	82	52	50
10	52	52	204	215	190	567	2,040	2,100	216	66	52	50
11	52	52	204	1,930	190	349	2,210	2,100	524	66	51	50
12	52	52	204	1,920	190	212	2,330	2,100	1,150	66	51	50
13	52	52	206	1,890	190	215	2,330	2,070	1,710	66	51	50
14	52	140	208	1,890	304	215	2,330	2,130	2,010	66	51	50
15	51	202	208	1,890	555	215	2,330	2,220	2,180	66	51	50
16	51	202	208	2,020	658	220	2,300	2,200	2,180	66	51	50
17	51	202	625	2,460	725	220	2,020	2,200	2,170	66	51	50
18	51	202	1,130	2,660	725	225	980	2,200	2,150	61	51	50
19	50	202	1,130	3,100	725	225	230	2,200	2,150	52	51	50
20	50	202	1,130	2,440	725	225	232	2,170	2,120	52	51	50
21	50	202	1,420	1,370	412	227	235	2,270	2,120	94	51	50
22	50	596	1,790	1,680	190	227	235	2,330	2,000	32	51	50
23	50	920	1,790	2,010	190	227	237	2,300	1,210	53	51	50
24	50	920	1,780	2,120	316	227	240	2,300	374	788	51	50
25	50	920	1,760	2,000	392	227	240	2,300	146	1,680	51	50
26	50	920	1,760	1,040	392	230	240	2,270	82	1,820	51	50
27	50	1,010	1,560	492	392	230	240	2,270	309	1,970	51	50
28	50	1,090	1,200	620	203	232	240	2,270	603	1,970	51	50
29	50	1,170	1,190	831	-----	232	240	2,240	828	1,260	51	50
30	50	1,140	1,180	875	-----	232	240	2,240	886	567	51	50
31	50	-----	1,180	875	-----	232	-----	2,240	-----	555	51	-----
TOTAL	1,569	10,915	26,136	40,868	16,397	8,410	35,343	62,972	41,203	17,250	2,971	1,506
MEAN	50.6	364	843	1,318	586	271	1,178	2,031	1,373	556	95.8	50.2
MAX	52	1,170	1,790	3,100	1,700	673	2,330	2,330	2,240	1,970	560	51
MIN	50	51	203	212	190	95	230	240	82	32	51	50
CAL YR 1972	TOTAL 180,901	MEAN 494	MAX 2,360	MIN 46								
WTR YR 1973	TOTAL 265,540	MEAN 728	MAX 3,100	MIN 32								

03372500 Salt Creek near Harrodsburg, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 3,340 cfs (94.6 cu m/s) Jan. 19, gage height, 20.97 ft (6.392 m); minimum daily, 32 cfs (0.91 cu m/s) July 22.

Period of record: Maximum discharge, 22,000 cfs (623 cu m/s) June 25, 1960, gage height, 32.76 ft (9.985 m) site and datum then in use; maximum gage height at present site and datum, 35.35 ft (10.775 m) May 9, 1961; no flow Sept. 29 to Dec. 2, 1964.

WATER TEMPERATURE, Current year: Maximum temperature, 29.0°C July 10, 11; minimum, 3.0°C Dec. 27-29, Jan. 6-13, Jan. 31 to Feb. 11, Feb. 19-22.

Period of record: Maximum temperature, 29.0°C July 10, 11, 1973; minimum, 1.0°C Jan. 4, 5, 8-13, 1968.

Maximum observed temperature, 31.0°C Aug. 6, 1964.

REMARKS.--Records fair. Flow regulated by Monroe Lake (See sta 03372400).

REVISIONS (WATER YEARS).--WSP 1705: 1959. WSP 1725: 1956(M). WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	20.5	13.5	13.5	8.0	7.5	4.0	4.0	3.0	3.0	4.0	4.0
2	20.5	20.0	13.5	13.5	7.5	7.0	4.0	4.0	3.0	3.0	4.0	4.0
3	20.5	20.0	13.5	13.5	7.0	7.0	4.0	4.0	3.0	3.0	4.5	4.0
4	20.0	20.0	13.5	13.0	7.0	7.0	4.0	3.5	3.0	3.0	4.5	4.5
5	20.0	20.0	13.0	13.0	7.0	7.0	3.5	3.5	3.0	3.0	4.5	4.5
6	20.0	20.0	13.0	13.0	7.0	7.0	3.5	3.0	3.0	3.0	5.0	4.5
7	20.0	20.0	13.5	13.0	7.0	6.5	3.0	3.0	3.0	3.0	5.5	5.0
8	20.0	19.5	13.5	13.0	6.5	6.5	3.0	3.0	3.0	3.0	6.0	5.5
9	19.5	19.0	13.0	13.0	6.5	6.5	3.0	3.0	3.0	3.0	6.5	6.0
10	19.0	19.0	13.0	13.0	6.5	6.0	3.0	3.0	3.5	3.0	6.5	6.0
11	19.0	18.5	13.0	13.0	6.0	5.5	3.0	3.0	3.5	3.0	7.0	6.0
12	19.0	19.0	13.0	12.5	5.5	5.5	3.5	3.0	3.5	3.5	7.5	7.0
13	19.0	18.5	12.5	10.5	5.5	5.5	3.5	3.0	3.5	3.5	8.0	7.5
14	18.5	18.5	11.5	10.0	5.5	5.5	3.5	3.5	3.5	3.5	7.5	7.5
15	18.5	18.0	11.5	11.5	5.5	5.0	4.0	3.5	3.5	3.5	8.0	7.5
16	18.0	18.0	11.5	11.0	5.0	4.5	4.0	4.0	3.5	3.5	9.0	8.0
17	18.0	17.5	11.0	11.0	4.5	4.5	4.0	4.0	3.5	3.5	9.0	9.0
18	17.5	16.5	11.0	11.0	4.5	4.0	4.0	4.0	3.5	3.5	9.0	8.5
19	16.5	16.0	11.0	10.5	4.0	4.0	4.0	4.0	3.5	3.0	8.5	8.5
20	16.0	16.0	10.5	10.0	4.0	4.0	4.0	4.0	3.5	3.0	9.0	8.5
21	16.0	16.0	10.0	10.0	4.0	4.0	4.0	4.0	3.5	3.0	9.0	9.0
22	16.0	15.5	10.0	9.5	4.0	3.5	4.0	4.0	3.5	3.0	9.0	9.0
23	15.5	15.5	9.5	9.5	3.5	3.5	4.0	3.5	3.5	3.5	9.0	9.0
24	15.5	15.0	9.5	9.5	3.5	3.5	3.5	3.5	3.5	3.5	9.5	9.0
25	15.0	14.5	9.5	9.5	3.5	3.5	3.5	3.5	3.5	3.5	9.5	9.5
26	14.5	14.5	9.5	9.0	3.5	3.5	3.5	3.5	4.0	3.5	10.0	9.5
27	14.5	14.5	9.0	9.0	3.5	3.0	3.5	3.5	4.0	4.0	10.5	9.5
28	14.5	14.0	9.0	8.5	3.0	3.0	3.5	3.5	4.0	4.0	10.0	9.5
29	14.0	14.0	8.5	8.5	3.5	3.0	3.5	3.5	---	---	9.5	9.5
30	14.0	14.0	8.5	8.0	3.5	3.5	3.5	3.5	---	---	10.0	9.5
31	14.0	13.5	---	---	4.0	3.5	3.5	3.0	---	---	10.0	9.5
MONTH	21.0	13.5	13.5	8.0	8.0	3.0	4.0	3.0	4.0	3.0	10.5	4.0

03372500 Salt Creek near Harrodsburg, Ind.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	13.0	13.0	16.5	16.0	21.5	20.5	23.0	23.0	24.0	23.0
2	9.5	9.5	13.0	13.0	18.0	16.5	23.0	21.5	23.5	23.0	24.0	23.0
3	9.5	9.5	14.0	13.0	18.5	17.5	24.0	23.0	23.0	22.0	24.0	24.0
4	10.5	9.5	14.5	14.0	19.0	18.0	24.5	24.0	24.5	22.0	24.0	23.0
5	10.5	10.0	14.5	14.5	20.0	19.0	25.0	24.5	24.5	23.5	24.0	23.5
6	10.0	10.0	14.5	14.5	19.5	19.0	25.0	24.5	24.0	24.0	24.0	24.0
7	10.0	10.0	14.5	14.5	19.5	19.0	25.5	25.0	24.5	23.5	24.0	23.5
8	10.5	10.0	14.5	14.5	19.5	18.5	26.5	25.5	24.0	23.5	24.0	24.0
9	10.5	10.5	15.0	14.5	18.5	18.5	28.0	26.5	24.5	22.0	24.0	24.0
10	10.5	10.5	15.0	14.5	18.5	18.5	29.0	28.0	24.0	22.0	24.5	24.0
11	11.0	10.5	15.0	15.0	20.5	18.5	29.0	28.0	24.5	23.5	24.0	23.5
12	10.5	10.5	15.0	14.5	21.0	20.0	28.5	28.0	24.5	23.0	24.0	23.5
13	10.5	10.5	14.5	14.5	22.0	21.0	28.0	27.0	24.0	23.5	24.0	23.5
14	10.5	10.5	14.5	14.5	23.5	22.0	27.0	27.0	24.0	22.0	23.5	23.0
15	11.0	10.5	14.5	14.5	23.5	22.5	28.0	26.5	24.0	22.0	23.5	23.0
16	10.5	10.5	14.5	14.5	22.5	21.5	28.0	26.5	24.0	23.0	23.5	23.0
17	10.5	10.5	15.0	14.5	22.5	21.5	28.0	27.0	24.0	23.0	23.0	23.0
18	10.5	10.5	15.0	14.5	22.5	21.5	28.0	27.0	24.0	23.5	23.0	22.0
19	10.5	10.5	15.0	14.5	22.0	22.0	28.0	22.0	24.0	23.5	22.0	22.0
20	11.0	10.5	15.0	15.0	22.5	22.0	22.0	21.5	24.5	22.0	22.0	22.0
21	11.5	11.0	15.5	15.0	23.0	22.5	23.5	20.5	25.5	23.0	22.0	21.5
22	11.0	10.5	16.0	15.5	23.0	22.0	22.0	22.0	25.5	23.5	22.0	21.5
23	11.5	10.5	16.0	16.0	22.5	22.0	22.5	21.5	24.5	24.0	21.5	21.5
24	11.0	11.0	16.0	16.0	22.5	21.5	25.0	21.5	24.5	24.0	22.0	21.5
25	12.0	11.0	16.0	16.0	23.0	22.0	25.0	25.0	24.0	24.0	22.0	21.5
26	12.0	12.0	16.5	16.0	23.0	22.0	25.0	24.5	24.0	23.5	22.0	21.5
27	13.0	11.5	17.0	16.5	23.0	21.5	24.5	24.5	24.0	23.0	22.0	21.5
28	12.0	11.5	17.0	16.0	22.0	21.0	25.0	24.5	24.0	23.0	22.0	21.5
29	12.5	12.0	16.5	16.5	21.0	20.5	25.0	23.5	24.0	23.5	21.5	21.5
30	13.0	12.5	16.5	16.0	20.5	20.0	23.5	23.0	24.0	23.5	22.0	21.5
31	---	---	16.0	16.0	---	---	23.0	23.0	24.0	23.5	---	---
MONTH	13.0	9.5	17.0	13.0	23.5	16.0	29.0	20.5	25.5	22.0	24.5	21.5

03373200 Indian Creek near Springville, Ind.

LOCATION.--Lat 38°57'01", long 86°40'30", in SE 1/4 SW 1/4 sec.18, T.6 N., R.2 W., Lawrence County, on left bank at downstream side of bridge on State Highway 54, 0.2 mile (0.3 km) downstream from Popcorn Creek, and 4 miles (6 km) northwest of Springville.

DRAINAGE AREA.--60.7 sq mi (157.2 sq km).

PERIOD OF RECORD.--September 1961 to September 1973 (discontinued as a continuous-record station; converted to a crest-stage and low-flow partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 580.00 ft (176.784 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 55.3 cfs (1.57 cu m/s), 12.37 in/yr (314 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,000 cfs (85.0 cu m/s) Nov. 13, gage height, 8.83 ft (2.691 m); minimum daily, 0.20 cfs (0.006 cu m/s) Sept. 20, 29, 30.

Period of record: Maximum discharge, 6,450 cfs (183 cu m/s) Mar. 9, 1964, gage height, 12.95 ft (3.947 m); no flow at times some years.

Flood in Spring 1950 or 1951 reached a stage of 18.4 ft (5.61 m), from information by local resident.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	386	45	96	104	26	212	60	17	17	7.2	1.1
2	34	1,230	38	68	142	26	172	54	101	14	6.3	.90
3	25	174	34	402	130	47	136	56	101	12	5.7	.70
4	21	91	35	319	109	55	215	46	105	12	5.2	.70
5	27	63	35	136	88	196	158	39	263	12	4.8	.70
6	20	48	164	88	72	111	112	34	247	9.5	4.4	.40
7	16	313	90	65	57	116	95	33	112	8.8	4.0	.40
8	14	217	554	52	50	93	136	144	63	8.5	3.8	.50
9	12	103	298	40	44	453	126	84	42	7.8	3.6	1.1
10	9.8	82	153	33	39	361	134	67	32	81	3.8	.60
11	8.8	85	93	29	35	1,310	132	54	26	20	3.8	.60
12	8.5	63	147	25	33	276	126	42	26	11	3.2	.50
13	8.5	1,130	440	21	34	155	93	34	26	8.1	4.2	.60
14	8.1	920	151	20	141	153	77	30	19	6.9	4.6	.80
15	7.5	181	107	20	191	164	67	27	19	7.2	4.0	.80
16	7.2	111	74	20	101	153	70	25	22	6.3	3.4	.70
17	6.9	81	53	21	71	732	174	22	17	5.4	2.8	.50
18	6.9	61	47	25	58	252	691	20	15	5.2	2.3	.50
19	6.3	107	78	45	53	164	501	19	14	4.8	2.2	.30
20	6.0	151	196	37	50	298	808	17	28	4.8	1.9	.20
21	5.4	90	118	93	45	247	229	16	15	101	1.6	.30
22	6.0	74	90	273	40	138	976	16	13	84	1.4	.30
23	7.5	63	71	196	38	101	980	17	11	20	1.3	.30
24	8.5	52	60	112	33	81	343	15	10	36	1.7	.30
25	7.8	53	53	81	30	427	215	14	9.8	20	1.7	.40
26	6.9	120	48	71	31	540	169	14	9.5	14	1.7	.40
27	6.9	116	42	64	29	215	120	20	215	12	1.6	.30
28	7.5	78	41	77	27	140	88	24	71	9.5	1.2	.30
29	7.8	58	37	95	-----	158	71	30	33	8.1	1.1	.20
30	7.2	52	44	70	-----	172	60	23	22	9.2	1.1	.20
31	11	-----	198	58	-----	286	-----	19	-----	9.2	1.4	-----
TOTAL	397.0	6,353	3,634	2,752	1,875	7,646	7,486	1,125	1,704.3	585.3	97.0	15.60
MEAN	12.8	212	117	88.8	67.0	247	250	36.3	56.8	18.9	3.13	.52
MAX	61	1,230	554	402	191	1,310	980	144	263	101	7.2	1.1
MIN	5.4	48	34	20	27	26	60	14	9.5	4.8	1.1	.20
CFSM	.21	3.49	1.93	1.46	1.10	4.07	4.12	.60	.94	.31	.05	.009
IN.	.24	3.89	2.23	1.69	1.15	4.69	4.59	.69	1.04	.36	.06	.009

CAL YR 1972 TOTAL 25,855.20 MEAN 70.6 MAX 2,220 MIN .70 CFSM 1.16 IN 15.85
WTR YR 1973 TOTAL 33,670.20 MEAN 92.2 MAX 1,310 MIN .20 CFSM 1.52 IN 20.63

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	0600	8.36	2,720	03-11	0200	7.33	2,100
11-13	2300	8.83	3,000	04-19	2400	7.70	2,320
01-03	1900	6.18	1,470	04-22	1300	8.38	2,730

03373500 East Fork White River at Shoals, Ind.

LOCATION.—Lat 38°40'02", long 86°47'32", in SW 1/4 NW 1/4 sec.30, T.3 N., R.3 W., Martin County, in first pier from left bank of bridge on U.S. Highway 50 at Shoals, 400 ft (122 m) upstream from Baltimore and Ohio Railroad bridge, 0.9 mile (1.4 km) upstream from Beaver Creek, and at mile 107.6 (173.1 km).

DRAINAGE AREA.—4,927 sq mi (12,761 sq km).

PERIOD OF RECORD.—June 1903 to July 1906, October 1908 to September 1916, June 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as East Branch White River at Shoals, 1903-6, 1908-16. Gage-height records collected at same site since May 1908 are contained in reports of the U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 442.25 ft (134.798 m) above mean sea level. See WSP 1725 for history of changes prior to Oct. 26, 1932.

AVERAGE DISCHARGE.—59 years (1903-5, 1909-16, 1923 to current year), 5,319 cfs (150.6 cu m/s), 14.66 in/yr (372 mm/yr).

EXTREMES.—Current year: Maximum discharge, 31,000 cfs (878 cu m/s) Mar. 18, gage height, 20.02 ft (6.102 m); minimum daily, 570 cfs (16.1 cu m/s) Oct. 27.

Period of record: Maximum discharge, 160,000 cfs (4,530 cu m/s) Mar. 28, 1913, gage height, 42.2 ft (12.86 m), from rating curve extended above 100,000 cfs (2,830 cu m/s); minimum daily, 64 cfs (1.81 cu m/s) Oct. 6, 1935, as a result of filling Williams Reservoir.

REMARKS.—Records excellent. Flow partially regulated by upstream reservoirs.

REVISIONS (WATER YEARS).—WSP 353: 1912. WSP 1335: 1903-6. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,800	1,240	7,310	7,400	9,050	3,530	17,000	10,200	5,880	10,400	7,840	1,190
2	2,050	3,790	6,820	8,020	9,050	3,310	15,800	7,910	5,510	11,200	5,790	1,130
3	1,720	5,970	6,040	8,870	9,250	3,210	15,100	6,910	6,340	11,200	4,800	1,080
4	1,660	5,670	5,330	11,200	9,780	3,230	15,400	6,890	6,340	8,630	4,150	1,060
5	1,610	6,130	4,940	10,900	10,500	3,630	16,000	7,180	6,750	6,020	3,530	1,040
6	1,510	6,340	4,960	10,300	10,900	4,350	15,100	6,980	10,300	5,350	3,110	1,020
7	1,390	6,390	6,660	10,600	10,500	5,670	14,500	6,640	10,500	5,720	2,810	906
8	1,390	6,960	9,250	10,500	8,920	8,020	14,700	6,710	9,550	5,420	2,610	918
9	1,490	6,730	14,500	8,850	7,580	9,340	14,800	7,620	10,100	4,680	2,460	1,030
10	1,340	6,730	15,600	6,890	6,500	11,800	14,500	8,100	11,100	4,190	2,390	1,090
11	1,200	7,310	15,500	5,790	5,700	16,700	14,200	8,720	11,700	4,680	2,240	1,390
12	1,110	7,270	16,200	5,810	5,190	21,100	13,900	8,040	11,100	4,750	2,150	1,480
13	1,220	7,270	18,600	6,500	4,730	20,000	13,300	7,090	8,980	4,270	2,220	1,270
14	1,030	12,000	19,500	5,740	4,450	19,800	12,000	6,500	7,290	3,530	2,140	1,090
15	870	13,300	17,700	5,470	5,170	23,500	10,500	6,090	6,590	3,190	2,050	1,020
16	771	11,100	15,900	5,300	6,620	26,200	9,550	5,830	6,500	2,690	2,150	954
17	804	11,000	14,900	5,330	7,860	28,900	9,740	5,600	6,360	2,390	2,460	918
18	804	12,100	14,200	5,650	8,500	30,900	13,200	5,370	5,250	2,170	2,520	906
19	793	13,400	12,700	5,950	7,860	29,400	19,100	5,240	7,160	2,080	2,470	918
20	771	14,700	11,800	6,390	6,780	26,900	21,000	5,100	8,740	2,020	2,240	918
21	750	14,200	11,400	6,160	6,090	27,600	21,300	4,960	9,250	6,850	2,060	892
22	740	12,100	11,600	6,410	5,470	27,700	21,500	4,910	9,230	21,800	2,030	848
23	740	11,100	12,500	8,210	4,800	25,700	25,400	5,120	8,960	19,700	1,760	837
24	710	10,600	13,000	9,720	4,450	23,100	27,400	5,260	7,180	13,000	1,660	826
25	710	9,250	12,600	10,700	4,230	19,800	25,600	5,120	5,210	12,100	1,600	837
26	690	7,990	11,100	11,000	4,070	18,000	23,300	4,980	4,130	13,600	1,520	815
27	570	7,580	9,440	9,610	3,890	16,400	22,600	4,980	4,310	14,000	1,450	804
28	660	7,470	8,410	7,770	3,710	14,300	22,000	5,070	5,510	14,400	1,390	837
29	690	7,490	7,690	7,510	-----	14,600	19,400	5,600	6,360	14,700	1,330	918
30	690	7,490	7,200	8,080	-----	16,000	14,500	6,360	8,680	14,000	1,280	954
31	710	-----	7,000	8,830	-----	16,800	-----	6,320	-----	11,600	1,240	-----
TOTAL	33,993	260,670	350,350	245,460	191,600	519,490	512,390	197,400	231,860	260,330	79,450	29,886
MEAN	1,097	8,689	11,300	7,918	6,843	16,760	17,080	6,368	7,729	8,398	2,563	996
MAX	2,800	14,700	19,500	11,200	10,900	30,900	27,400	10,200	11,700	21,800	7,840	1,480
MIN	570	1,240	4,940	5,300	3,710	3,210	9,550	4,910	4,130	2,020	1,240	804
CFSM	.22	1.76	2.29	1.61	1.39	3.40	3.47	1.29	1.57	1.70	.52	.20
IN.	.26	1.97	2.65	1.85	1.45	3.92	3.87	1.49	1.75	1.97	.60	.23

CAL YR 1972 TOTAL 2,157,778 MEAN 5,896 MAX 35,700 MIN 442 CF5M 1.20 IN 16.29
WTR YR 1973 TOTAL 2,912,879 MEAN 7,980 MAX 30,900 MIN 570 CF5M 1.62 IN 21.99

PEAK DISCHARGE (BASE, 20,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-18	1100	20.02	31,000	07-22	1700	15.74	23,100
04-24	1200	18.29	27,600				

03373700 Lost River near West Baden Springs, Ind.

LOCATION.—Lat 38°35'10", long 86°38'03", in SW 1/4 SE 1/4 sec.21, T.2 N., R.2 W., Orange County, on left bank 20 ft (6 m) downstream from bridge on U.S. Highway 150, 1.7 miles (2.7 km) northwest of West Baden Springs, and 3.8 miles (6.1 km) downstream from Lick Creek.

DRAINAGE AREA.—287 sq mi (743 sq km).

PERIOD OF RECORD.—December 1964 to current year. Prior to October 1965, published as Lost River near West Baden.

GAGE.—Water-stage recorder. Datum of gage is 457.92 ft (139.574 m) above mean sea level (levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.—8 years, 315 cfs (8.921 cu m/s), 14.90 in/yr (378 mm/yr).

EXTREMES.—Current year: Maximum discharge, 7,020 cfs (199 cu m/s) July 22, gage height, 25.35 ft (7.727 m); minimum daily, 19 cfs (0.54 cu m/s) Oct. 16-20.

Period of record: Maximum discharge, 7,020 cfs (199 cu m/s) July 22, 1973, gage height, 25.35 ft (7.727 m); minimum daily, 7.5 cfs Oct. 8, 1966.

Flood in March 1964 reached a stage of 28.1 ft (8.56 m), from floodmarks.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	265	279	537	469	138	827	421	213	325	446	31
2	57	444	252	429	641	132	747	409	187	239	342	29
3	37	425	223	425	623	130	669	393	326	193	299	27
4	66	245	200	901	534	135	700	355	284	176	269	26
5	239	147	181	777	469	208	791	324	430	145	230	26
6	67	103	342	573	415	296	697	299	1,130	130	194	26
7	43	97	567	460	369	487	611	282	1,060	113	173	26
8	35	183	956	392	349	769	885	590	646	99	156	26
9	29	195	1,950	342	329	674	1,030	662	464	89	140	26
10	23	153	1,780	298	305	1,030	903	538	382	79	134	26
11	23	139	1,210	266	276	2,130	771	558	318	77	127	26
12	23	120	789	234	253	2,960	698	455	269	90	119	25
13	22	287	1,040	210	239	2,400	612	371	241	65	186	25
14	20	1,090	1,010	192	255	1,690	539	324	207	59	230	24
15	22	785	784	179	378	1,770	491	291	183	61	150	23
16	19	488	646	165	417	1,580	459	264	169	74	113	23
17	19	364	536	154	356	2,050	658	243	156	62	93	22
18	19	294	479	150	309	2,520	1,770	221	141	54	80	22
19	19	275	516	161	286	2,260	2,830	203	128	49	74	21
20	19	402	1,140	188	270	1,790	3,080	188	364	47	66	21
21	21	401	1,030	191	252	1,790	2,570	168	584	3,050	61	22
22	22	345	739	487	234	1,570	1,940	154	382	6,520	55	21
23	26	303	576	716	221	1,160	1,670	151	297	6,090	50	24
24	26	269	478	613	203	819	1,400	139	229	4,480	47	26
25	28	249	417	493	184	727	1,040	125	164	2,840	47	27
26	25	311	374	420	171	946	811	127	138	1,710	44	24
27	28	428	334	406	158	891	667	651	464	1,020	40	22
28	33	419	304	443	148	724	571	470	755	644	37	21
29	34	352	277	559	-----	648	502	338	477	524	35	21
30	37	309	260	549	-----	750	458	316	392	467	33	21
31	48	-----	445	485	-----	790	-----	264	-----	462	32	-----
TOTAL	1,218	9,887	20,114	12,395	9,113	35,964	31,397	10,294	11,180	30,033	4,102	730
MEAN	39.3	330	649	400	325	1,160	1,047	332	373	969	132	24.3
MAX	239	1,090	1,950	901	641	2,960	3,080	662	1,130	6,520	446	31
MIN	19	97	181	150	148	130	458	125	128	47	32	21
CFSM	.14	1.15	2.26	1.39	1.13	4.04	3.65	1.16	1.30	3.38	.46	.08
IN.	.16	1.28	2.61	1.61	1.18	4.66	4.07	1.33	1.45	3.89	.53	.09
CAL YR 1972	TOTAL 126,536 MEAN 346 MAX 4,650 MIN 15 CFSM 1.21 IN 16.40											
WTR YR 1973	TOTAL 176,427 MEAN 483 MAX 6,520 MIN 19 CFSM 1.68 IN 22.87											

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-09	1500	18.85	2,000	04-20	1200	21.20	3,150
03-12	0500	21.03	3,030	07-22	1000	25.35	7,020
03-18	1200	20.30	2,560				

03374000 White River at Petersburg, Ind.

LOCATION.—Lat 38°30'39", long 87°17'22", in SE 1/4 SW 1/4 sec.15, T.1 N., R.8 W., Pike County, on left bank 300 ft (91 m) downstream from bridge on State Highway 61, 0.4 mile (0.6 km) upstream from Prides Creek, 1.4 mile (2.3 km) north of Petersburg, and at mile 47.7 (76.7 km).

DRAINAGE AREA.—11,125 sq mi (28,814 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: October 1927 to current year. Monthly discharge only for October 1927, published in WSP 1305. Published as "at Hazelton" October 1927 to September 1938. Records published for both sites October 1937 to September 1938. Gage-height records collected at present site and datum since January 1935 are contained in reports of U.S. Weather Bureau.

WATER TEMPERATURE: June 1964 to current year.

GAGE.—Water-stage recorder with temperature attachment. Datum of gage is 400.00 ft (121.920 m) above mean sea level. See WSP 1725 for history of changes prior to Apr. 1, 1941.

AVERAGE DISCHARGE.—46 years, 11,334 cfs (321.0 cu m/s), 13.84 in/yr (352 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,600	3,010	16,200	17,100	17,900	8,240	43,000	35,800	10,700	19,000	19,400	3,780
2	10,600	5,650	15,700	18,600	19,300	7,860	44,000	26,600	10,300	19,400	14,800	3,720
3	8,500	12,600	14,900	20,200	20,200	7,630	42,000	20,000	10,100	18,900	12,600	3,710
4	7,300	17,400	13,800	24,600	21,100	7,570	40,100	17,400	10,600	17,500	10,800	3,530
5	6,990	18,900	12,900	26,200	22,300	8,270	38,600	16,500	9,730	14,300	9,710	3,360
6	7,950	20,300	12,400	26,500	23,400	9,630	37,500	15,900	13,400	11,400	8,820	3,260
7	7,820	21,600	12,400	26,200	23,800	11,300	36,000	15,700	19,900	10,700	8,140	3,130
8	6,970	22,700	15,100	25,800	22,800	12,600	34,200	15,700	22,800	10,800	7,610	3,020
9	6,370	23,600	22,200	23,900	20,400	15,200	32,800	16,900	23,500	9,960	7,290	2,990
10	5,600	23,800	26,900	19,900	18,000	18,800	31,200	18,300	23,800	8,920	7,460	2,960
11	5,010	22,500	29,700	14,700	15,700	26,600	29,800	18,400	24,300	8,250	7,110	2,960
12	4,430	19,800	30,800	13,400	13,500	33,800	28,300	17,800	24,400	8,760	7,020	3,070
13	4,000	18,800	32,300	12,900	12,100	37,400	27,000	16,700	22,500	8,630	7,800	3,140
14	3,810	23,100	33,200	12,900	11,400	40,400	25,400	15,200	18,400	8,010	6,900	3,030
15	3,690	26,600	34,400	12,500	11,800	43,500	23,500	13,900	15,500	7,640	6,890	2,850
16	3,580	29,000	34,700	11,700	12,400	46,800	21,900	12,800	14,000	6,550	8,040	2,750
17	3,510	30,000	33,300	10,900	13,500	54,400	21,800	11,800	13,400	5,820	8,500	2,890
18	3,390	31,200	31,000	10,700	14,400	56,500	24,100	11,000	12,800	5,400	9,430	3,030
19	3,230	33,200	27,600	11,500	14,600	55,900	32,500	10,500	12,800	5,060	10,300	2,990
20	3,050	35,500	25,700	12,200	13,900	55,900	38,700	10,100	16,100	4,820	10,400	2,910
21	2,900	36,800	24,400	12,800	12,800	56,600	43,000	9,610	18,400	6,550	8,650	2,810
22	2,770	36,100	23,900	14,900	11,700	55,900	43,400	9,550	18,700	19,100	7,060	2,670
23	2,730	32,500	24,100	16,800	10,900	54,400	49,900	9,410	17,600	27,500	6,410	2,670
24	2,670	27,000	24,300	18,700	10,100	52,400	52,400	9,190	15,700	31,200	5,640	2,530
25	2,620	22,900	24,100	20,500	9,520	48,700	55,600	9,300	13,700	31,000	5,360	2,490
26	2,660	20,400	23,100	21,800	9,070	45,100	57,800	9,520	11,100	30,500	5,040	2,440
27	2,760	18,900	20,700	22,000	8,700	41,300	55,800	9,390	10,200	30,600	4,780	2,400
28	2,790	18,000	18,400	20,200	8,370	39,100	53,000	9,100	12,000	30,500	4,500	2,350
29	2,760	17,400	16,800	18,200	-----	37,800	49,000	9,300	14,600	30,000	4,300	2,460
30	2,670	16,900	15,700	17,200	-----	38,500	43,600	10,000	17,000	27,100	4,120	2,400
31	2,700	-----	16,100	17,400	-----	40,800	-----	10,600	-----	23,000	3,980	-----
TOTAL	146,430	686,160	706,800	552,900	423,660	1,068,9M	1,155,9M	441,970	478,030	496,870	248,860	88,300
MEAN	4,724	22,870	22,800	17,840	15,130	34,480	38,530	14,260	15,930	16,030	8,028	2,943
MAX	10,600	36,800	34,700	26,500	23,800	56,600	57,800	35,800	24,400	31,200	19,400	3,780
MIN	2,620	3,010	12,400	10,700	8,370	7,570	21,800	9,100	9,730	4,820	3,980	2,350
CFSM	.42	2.06	2.05	1.60	1.36	3.10	3.46	1.28	1.43	1.44	.72	.26
IN.	.49	2.29	2.36	1.85	1.42	3.57	3.87	1.48	1.60	1.66	.83	.30
CAL YR 1972	TOTAL 4,855,160	MEAN 13,270	MAX 66,900	MIN 1,430	CFSM 1.19	IN 16.23						
WTR YR 1973	TOTAL 6,494,780	MEAN 17,790	MAX 57,800	MIN 2,350	CFSM 1.60	IN 21.72						

03374000 White River at Petersburg, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 58,600 cfs (1,660 cu m/s) Apr. 26, gage height, 22.15 ft (6.751 m); minimum daily, 2,350 cfs (66.6 cu m/s) Sept. 28.

Period of record: Maximum discharge, 183,000 cfs (5,180 cu m/s) Jan. 22, 1937, gage height, 28.3 ft (8.63 m) present datum, 31.58 ft (9.626 m) site and datum then in use; minimum daily, 573 cfs (16.2 cu m/s) Oct. 1, 1941.

Flood in March 1913, reached a stage of 29.5 ft (8.99 m), present site and datum, from floodmarks by Corps of Engineers. Discharge, 235,000 cfs (6,660 cu m/s).

WATER TEMPERATURE, Current year: Maximum temperature, 31.0°C Aug. 29, 30, Sept. 2-5; minimum, 3.0°C December 19, 20.

Period of record: Maximum temperature, 34.0°C July 21, 22, 1972; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good. Natural flow of stream affected by reservoirs.

REVISIONS (WATER YEARS).--WSP 1305: 1930(M). WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	21.0	17.0	16.5	8.0	7.5	8.0	8.0	6.5	6.0	11.0	10.5
2	21.0	20.5	17.0	16.0	7.5	7.0	8.0	8.0	6.5	6.5	12.0	11.0
3	20.5	20.0	16.0	15.5	8.0	7.0	8.0	7.0	7.0	6.5	12.0	11.5
4	20.5	20.0	15.5	14.0	8.5	8.0	7.0	6.5	7.0	6.5	12.0	11.5
5	20.5	20.0	14.0	13.0	9.0	8.5	6.5	6.0	7.0	6.5	13.5	12.0
6	20.5	20.0	13.0	13.0	9.0	9.0	6.0	5.5	7.0	7.0	14.0	13.5
7	20.0	20.0	13.0	13.0	9.0	8.5	5.5	5.0	7.0	6.5	14.5	14.0
8	20.0	19.5	13.0	12.5	8.5	7.5	5.0	4.5	7.0	7.0	15.5	14.5
9	20.0	19.5	12.5	12.0	7.5	7.0	4.5	4.0	7.0	6.5	15.5	15.0
10	20.0	19.5	12.5	12.0	7.0	6.5	4.0	4.0	6.5	6.5	15.0	14.5
11	19.5	19.5	12.0	12.0	6.5	6.0	4.0	4.0	6.5	6.0	14.5	14.5
12	20.0	19.5	12.0	11.5	6.0	5.5	4.0	4.0	6.5	6.0	14.5	14.5
13	20.0	20.0	12.0	11.5	5.5	5.5	4.5	4.0	7.0	6.5	14.5	14.5
14	20.0	20.0	11.5	11.0	5.5	4.5	4.5	4.0	7.0	6.5	15.0	14.5
15	20.0	19.5	11.0	10.5	4.5	4.5	5.0	4.0	6.5	6.5	15.0	15.0
16	19.5	19.0	10.5	9.5	4.5	4.5	5.5	4.5	6.5	6.0	15.0	15.0
17	19.5	18.5	9.5	9.0	4.5	4.0	6.5	5.5	6.0	6.0	15.0	12.0
18	18.5	16.5	9.0	8.5	4.0	3.5	7.5	6.5	6.0	6.0	13.0	12.0
19	16.5	14.5	8.5	8.0	3.5	3.0	8.0	7.5	6.0	5.5	13.0	12.0
20	16.0	15.0	8.0	8.0	3.5	3.0	8.0	8.0	6.0	6.0	12.0	11.0
21	15.5	15.0	8.0	7.5	4.5	3.5	8.0	7.5	7.0	6.5	11.0	10.5
22	16.0	15.5	7.5	7.0	5.5	4.5	7.5	7.0	8.0	7.0	11.0	10.5
23	17.0	16.0	8.0	7.5	5.5	5.5	7.0	6.5	8.5	7.0	11.0	10.0
24	17.0	16.5	8.0	7.5	5.5	5.5	6.5	6.5	8.5	8.0	10.5	10.0
25	16.5	16.0	7.5	7.5	6.0	5.5	6.5	6.0	9.5	9.0	11.0	10.0
26	16.5	15.0	7.5	7.0	6.0	6.0	6.0	6.0	10.0	9.5	12.0	11.0
27	16.5	15.5	7.0	7.0	6.0	6.0	6.0	5.5	10.5	10.0	13.5	12.0
28	16.0	15.0	7.5	7.0	6.5	6.0	6.0	5.5	10.5	10.0	13.5	13.5
29	16.0	15.5	7.5	7.5	6.5	6.5	6.5	6.0	---	---	14.0	13.5
30	16.5	15.5	8.0	7.5	8.0	6.5	6.5	6.0	---	---	15.0	14.0
31	16.5	16.0	---	---	8.0	8.0	6.5	6.0	---	---	15.5	15.0
MONTH	22.0	14.5	17.0	7.0	9.0	3.0	8.0	4.0	10.5	5.5	15.5	10.0

03374000 White River at Petersburg, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.5	16.5	16.0	21.0	20.0	24.5	24.0	26.5	26.5	30.5	30.0
2	16.0	16.0	17.0	16.5	21.5	21.0	24.5	24.5	26.5	26.0	31.0	30.0
3	16.0	16.0	17.0	16.5	23.0	21.5	25.5	24.5	26.5	26.0	31.0	30.5
4	16.0	15.5	16.5	16.5	23.5	23.0	26.0	25.5	26.5	26.0	31.0	30.5
5	15.5	15.5	16.5	16.5	24.0	23.5	26.5	26.0	26.5	26.5	31.0	30.5
6	15.5	14.5	16.5	16.0	24.0	23.0	27.0	26.5	26.5	26.5	30.5	30.0
7	14.5	13.5	17.0	16.5	23.5	23.0	27.5	27.0	27.0	26.5	30.0	28.5
8	14.0	13.5	17.0	17.0	23.0	23.0	28.0	27.5	28.5	27.0	29.0	28.5
9	14.0	14.0	17.5	17.0	23.5	23.0	28.5	28.0	29.0	28.5	28.5	27.0
10	14.0	14.0	18.0	17.5	24.0	23.5	29.0	28.5	28.5	28.0	27.0	26.5
11	14.0	13.5	18.0	18.0	24.0	24.0	29.0	28.5	28.5	28.0	27.5	26.0
12	13.5	13.0	18.0	18.0	25.0	24.0	28.5	28.0	28.5	28.0	27.5	26.5
13	13.0	12.5	18.0	18.0	25.5	25.0	28.0	27.0	28.5	28.0	27.0	26.0
14	13.0	12.5	19.0	18.0	26.0	25.5	27.0	27.0	28.0	27.0	27.0	25.5
15	13.5	13.0	19.0	19.0	26.0	26.0	27.0	27.0	27.0	26.5	27.0	25.5
16	14.5	13.5	19.0	18.5	26.5	26.0	28.0	27.0	27.5	27.0	27.0	25.5
17	15.0	14.5	18.5	18.5	26.5	26.5	28.0	27.5	27.5	27.0	26.5	25.5
18	16.5	15.0	18.5	18.5	26.5	26.5	28.5	28.0	27.5	27.0	26.0	24.5
19	16.5	16.5	19.0	18.5	27.0	26.5	28.5	28.5	27.0	26.5	24.5	24.0
20	18.0	16.5	19.0	19.0	27.0	26.5	29.5	28.5	28.5	27.0	24.0	24.0
21	18.0	18.0	20.0	19.0	26.5	26.0	29.5	27.5	28.5	28.0	24.5	23.0
22	18.0	17.0	20.0	20.0	26.0	26.0	27.5	25.5	28.0	28.0	26.0	24.5
23	17.5	17.0	20.5	20.0	26.0	25.5	25.5	24.0	28.0	27.0	26.5	25.5
24	17.0	16.5	20.0	19.5	25.5	25.5	24.5	24.0	27.0	27.0	27.0	26.0
25	17.0	16.5	20.5	20.0	26.0	25.5	25.5	24.5	27.0	26.5	28.5	26.5
26	16.5	16.0	20.5	20.5	26.5	26.0	26.0	25.5	28.0	27.0	29.0	28.0
27	16.0	16.0	20.5	20.5	26.5	26.0	26.0	26.0	29.5	28.0	29.0	26.5
28	16.0	16.0	20.5	20.5	26.0	25.0	26.0	26.0	30.5	29.5	26.5	26.0
29	16.0	16.0	20.5	19.5	25.0	24.5	26.5	26.0	31.0	30.5	26.0	25.0
30	16.5	16.0	20.0	19.5	24.5	24.0	26.5	26.5	31.0	30.5	26.0	26.0
31	---	---	20.0	20.0	---	---	26.5	26.5	30.5	29.5	---	---
MONTH	18.0	12.5	20.5	16.0	27.0	20.0	29.5	24.0	31.0	26.0	31.0	23.0

WABASH RIVER BASIN

03374100 White River at Hazelton, Ind.

LOCATION.—38°29'23", long 87°33'00", in SE 1/4 NW 1/4 sec.29, T.1 N., R.10 W., Gibson County, on downstream side of county road bridge (old U.S. 41) at Hazelton, and at mile 18.7 (30.1 km).

DRAINAGE AREA.—11,305 sq mi (29,280 sq km).

PERIOD OF RECORD.—CHEMICAL ANALYSES: February 1973 to current year.

REMARKS.—Water discharge obtained from White River at Petersburg (See sta 03374000), at mile 47.7 (76.7 km), drainage area 11,125 sq mi (28,814 sq km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
FEB. 21...	1100	12800	7.2	60	18	13	.4	11	2.2	203	0	58
MAR. 19...	1200	55900	7.6	43	12	5.7	.2	7	2.9	137	0	46
APR. 16...	1000	28400	6.9	57	16	8.6	.3	8	1.8	183	0	49
MAY 24...	1030	9300	3.5	62	20	12	.3	9	2.1	223	0	59
JUNE 20...	0930	15300	8.2	61	17	11	.3	10	2.4	223	0	45
JULY 24...	0930	31400	4.4	27	5.2	4.0	.2	9	2.9	93	0	17
AUG. 23...	0900	5990	6.2	61	16	13	.4	11	3.1	195	0	53
SEP. 18...	1100	3030	.6	61	27	22	.6	15	3.2	243	0	68

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	AIR TEMP- ERATURE (DEG C)
FEB. 21...	21	.3	296	280	10200	.40	220	57	492	7.8	3.0	--
MAR. 19...	12	.2	229	198	34600	.31	160	44	350	7.8	10.0	--
APR. 16...	14	.1	273	244	20900	.37	210	58	443	7.5	12.0	--
MAY 24...	17	.2	306	292	7680	.42	250	69	490	8.4	19.5	23.0
JUNE 20...	19	.3	308	274	12700	.42	220	39	475	7.7	26.5	28.5
JULY 24...	6.2	.6	207	113	17500	.28	89	13	180	7.5	24.5	30.0
AUG. 23...	21	.3	324	270	5240	.44	220	58	500	7.8	25.5	--
SEP. 18...	30	.3	300	332	2450	.41	260	64	560	7.4	21.5	21.0

03374100 White River at Hazelton, Ind.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PFR 100 ML)	IMME- DIATE COLI- FORM (COL. PFR 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TUR- RID- ITY (JTU)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
FEB. 21...	13.1	97	574	3800	100	20	3.4	.79	15	2.6	.16	5.1
MAR. 19...	9.9	88	624	3000	1400	60	3.6	1.3	16	2.3	.22	3.5
APR. 16...	--	--	410	4000	840	30	2.9	.53	13	2.4	.14	9.3
MAY 24...	9.8	105	100	14500	80	20	2.2	.85	10	1.4	.16	1.4
JUNE 20...	6.0	75	2600	8900	1500	70	2.7	.38	12	2.3	.31	7.1
JULY 24...	5.6	67	2600	7600	2500	2	17	1.0	75	16	--	4.7
AUG. 23...	7.8	95	4300	30000	5500	40	2.2	.67	9.6	1.5	.09	4.9
SEP. 18...	12.4	139	1250	1700	<10	6	2.5	1.4	11	1.1	.30	15

DATE	ALKA- LITY AS CACO3 (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)
FEB. 21...	167	--	--	--	--	--	--	--	--	--	--	--
MAR. 19...	112	4.5	2	3	1	10	0	0	0	<20	20	120
APR. 16...	150	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	183	--	--	--	--	--	--	--	--	--	--	--
JUNE 20...	183	--	--	--	--	--	--	--	--	--	--	--
JULY 24...	76	--	--	--	--	--	--	--	--	--	--	--
AUG. 23...	160	--	--	--	--	--	--	--	--	--	--	--
SEP. 18...	199	7.5	0	13	0	<10	0	0	0	0	18	10

DATE	TOTAL IRON (FF) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PR) (UG/L)	TOTAL LEAD (PR) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)
FEB. 21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 19...	2800	620	2	100	140	10	0	40	5	1	.1	.2
APR. 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 24...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 18...	400	40	5	50	130	0	60	40	6	9	.0	.0

03374455 Patoka River near Hardinsburg, Ind.

LOCATION.--Lat 38°26'41", long 86°23'14", in NW 1/4 SE 1/4 sec.10, T.1 S., R.1 E., Orange County, on downstream edge of center pier of county road bridge, 0.2 mile (0.3 km) upstream from left-bank tributary, 0.7 mile (1.1 km) northeast of Valeene, and 6.0 miles (9.7 km) southwest of Hardinsburg.

DRAINAGE AREA.--12.8 sq mi (33.2 sq km).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 606.89 ft (184.980 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 23.4 cfs (0.663 cu m/s), 24.83 in/yr (631 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,600 cfs (45.3 cu m/s) July 21, gage height, 7.39 ft (2.252 m); minimum daily, 0.03 cfs (0.001 cu m/s) Oct. 11, 22.

Period of record: Maximum discharge, 1,600 cfs (45.3 cu m/s) July 21, 1973, gage height, 7.39 ft (2.252 m); no flow for several days in 1971, 1972.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	4.9	7.8	41	38	5.5	61	16	12	8.7	4.4	.65
2	.21	8.0	6.3	26	47	5.5	44	20	11	6.4	3.4	.65
3	.13	4.1	5.3	69	32	7.7	35	17	21	4.9	3.0	.53
4	.13	2.1	4.7	107	25	11	64	13	16	4.7	2.6	.45
5	.18	1.7	4.3	45	21	76	50	11	33	4.4	2.4	.45
6	.13	1.4	126	28	17	41	37	9.6	21	3.4	2.2	.45
7	.11	1.7	35	20	15	245	38	8.8	16	3.0	2.0	.38
8	.07	5.0	487	16	15	93	168	102	11	2.6	2.0	.38
9	.05	2.9	168	12	13	56	87	40	7.7	2.4	2.8	.53
10	.05	2.4	55	9.0	11	50	63	48	6.1	2.2	2.4	.53
11	.03	2.3	29	7.0	9.8	446	46	40	5.2	1.8	1.8	.45
12	.05	2.1	25	6.0	9.2	115	41	26	4.9	1.5	58	.32
13	.05	22	71	5.5	9.1	56	30	19	4.7	1.4	186	.38
14	.07	30	38	5.2	14	206	25	14	4.1	1.4	32	.53
15	.07	9.8	27	5.2	28	180	21	11	4.1	1.4	13	.32
16	.05	6.3	19	5.3	20	162	31	9.7	3.9	1.2	7.7	.28
17	.07	4.7	16	5.2	15	355	165	8.4	4.1	1.1	5.5	.28
18	.07	3.8	14	5.8	13	129	442	7.2	3.6	.93	4.1	.24
19	.05	12	29	14	11	77	213	7.2	4.1	.93	3.4	.28
20	.05	25	95	12	11	83	204	6.3	10	.78	2.8	.28
21	.05	12	44	27	9.8	98	82	5.4	4.1	750	2.4	.32
22	.03	8.7	29	91	8.8	54	52	6.5	3.2	404	2.0	.32
23	.07	7.3	21	57	8.4	38	125	8.0	2.8	52	1.7	.24
24	.09	5.9	16	35	7.2	30	85	6.3	2.6	23	1.7	.28
25	.13	5.8	13	25	6.7	66	53	5.3	2.4	14	1.7	.28
26	.13	13	11	22	6.4	124	38	5.2	2.2	9.5	1.4	.24
27	.13	19	9.6	33	6.0	63	30	85	545	7.0	1.2	.24
28	.18	13	9.0	40	5.6	42	23	39	80	5.8	1.1	.24
29	.21	12	8.2	43	-----	54	18	24	25	4.7	.93	.38
30	.13	9.7	15	31	-----	82	16	25	14	3.9	.93	.32
31	.65	-----	108	26	-----	76	-----	17	-----	4.7	.78	-----
TOTAL	3.74	258.6	1,546.2	874.2	433.0	3,126.7	2,387	660.9	884.8	1,333.74	357.34	11.22
MEAN	.12	8.62	49.9	28.2	15.5	101	79.6	21.3	29.5	43.0	11.5	.37
MAX	.65	30	487	107	47	446	442	102	545	750	186	.65
MIN	.03	1.4	4.3	5.2	5.6	5.5	16	5.2	2.2	.78	.78	.24
CFSM	.009	.67	3.90	2.20	1.21	7.89	6.22	1.66	2.30	3.36	.90	.03
IN.	.01	.75	4.49	2.54	1.26	9.09	6.94	1.92	2.57	3.88	1.04	.03

CAL YR 1972 TOTAL 8,617.10 MEAN 23.5 MAX 652 MIN 0 CFSM 1.84 IN 25.04
WTR YR 1973 TOTAL 11,877.44 MEAN 32.5 MAX 750 MIN .03 CFSM 2.54 IN 34.52

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	0545	3.36	295	03-14	1730	4.71	643	06-27	1315	7.06	1,460
12-08	1615	5.35	852	03-17	0015	4.38	550	07-21	2115	7.39	1,600
03-07	0800	4.58	604	04-18	0600	5.65	958	08-12	2130	3.90	430
03-11	0215	4.85	685	04-19	2230	4.05	468	08-13	0915	4.71	643

03374470 Patoka River near English, Ind.

LOCATION.—Lat 38°26'26", long 86°27'21", in SW 1/4 SW 1/4 sec.7, T.1 S., R.1 E., Orange County, at bridge on State Highway 37, 1 mile (1.6 km) upstream from Hogs Defeat Creek, 8.0 miles (12.8 km) north of English, and 8.7 miles (14.0 km) south of Paoli.

DRAINAGE AREA.—30.8 sq mi (79.77 sq km).

PERIOD OF RECORD.—CHEMICAL ANALYSES: July 1969 to current year.

WATER TEMPERATURES: August 1970 to current year.

EXTREMES.—WATER TEMPERATURE, Current year: Maximum temperature, 25.5°C June 19; minimum, freezing point Jan. 7-13.

Period of record: Maximum temperature, 33.0°C July 23, 1972; minimum, freezing point on many days during most winter periods.

REMARKS.—Discharge measurements only to bankfull stage.

WATER QUALITY DATA. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT. 10...	1100	.10	5.9	210	100	55	42	58	3.7	3.9
NOV. 14...	1300	80	8.0	260	140	55	28	42	5.2	2.7
DEC. 14...	1215	86	8.2	200	120	34	34	41	3.4	2.1
JAN. 18...	1100	11	3.3	210	50	61	48	58	5.4	2.8
FEB. 22...	1110	19	6.6	150	40	27	27	53	4.5	2.7
APR. 02...	1130	100	6.4	90	60	43	38	39	3.7	2.6
MAY 03...	1350	36	5.9	140	130	63	48	50	5.0	2.7
JUNE 08...	1130	26	7.4	170	20	50	40	49	5.2	2.8
JULY 10...	1000	4.9	6.2	160	30	41	36	67	5.1	2.8
AUG. 15...	1330	23	9.5	240	30	46	33	51	4.1	2.6
SEP. 20...	0915	.72	5.3	180	140	45	45	67	6.6	3.5

WABASH RIVER BASIN

03374470 Patoka River near English, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)
OCT. 10...	15	--	--	.10	.02	--	--	--	138
NOV. 14...	30	--	--	3.2	.72	--	--	6.1	98
DEC. 14...	10	--	--	2.5	.60	--	--	.7	94
JAN. 18...	5	--	--	2.0	.40	--	--	.9	141
FEB. 22...	5	--	--	2.0	.50	--	--	1.7	112
APR. 02...	5	--	--	1.4	.30	--	--	1.4	90
MAY 03...	5	--	--	1.3	.30	--	--	1.7	108
JUNE 08...	5	8.6	90	.90	.20	--	--	1.5	121
JULY 10...	2	6.0	69	1.7	.38	.08	.02	3.1	159
AUG. 15...	7	7.8	85	1.2	.30	.23	.07	4.9	126
SEP. 20...	3	4.4	43	.10	.02	.28	.09	34	173

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	AIR TEMP- ERATURE (DEG C)
OCT. 10...	187	.05	.25	160	22	200	7.4	11.5	17.0
NOV. 14...	159	36.7	.23	130	28	265	7.5	10.0	6.0
DEC. 14...	143	30.2	.18	120	22	200	8.4	5.5	1.0
JAN. 18...	188	5.41	.25	170	26	340	8.5	3.5	13.0
FEB. 22...	172	9.44	.25	150	38	310	8.1	4.0	4.5
APR. 02...	140	36.2	.18	110	22	230	8.1	10.0	10.0
MAY 03...	165	15.4	.21	150	38	280	8.1	14.5	17.0
JUNE 08...	168	11.7	.23	140	22	300	8.2	17.5	30.0
JULY 10...	209	2.82	.29	190	29	360	8.0	23.0	25.0
AUG. 15...	168	11.2	.24	140	18	295	7.7	20.0	32.0
SEP. 20...	212	.42	.30	190	21	370	7.0	15.0	22.0

DATE	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT. 10...	.1	5	3.8	168	0	22	7.0	.1	186
NOV. 14...	.1	4	2.2	120	0	29	6.5	.2	170
DEC. 14...	.1	4	1.2	114	0	24	4.0	.1	130
JAN. 18...	.1	3	1.1	172	0	27	4.5	.1	182
FEB. 22...	.1	4	1.1	136	0	29	6.0	.1	184
APR. 02...	.1	5	1.1	110	0	23	2.5	.1	134
MAY 03...	.1	4	1.0	132	0	26	8.0	.1	158
JUNE 08...	.1	4	1.1	148	0	23	5.0	.1	166
JULY 10...	.1	3	1.2	194	0	25	3.8	.1	213
AUG. 15...	.1	4	1.5	154	0	20	2.2	.1	180
SEP. 20...	.1	4	2.4	211	0	19	3.5	.1	218

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	12.0	11.5	11.0	4.5	4.0	7.5	5.0	8.0	5.5	8.0	5.0
2	16.5	13.0	13.5	11.5	5.5	4.0	5.5	4.0	8.0	6.5	8.5	6.5
3	17.5	14.0	13.0	11.5	6.0	5.0	6.0	4.0	6.5	5.5	9.5	8.5
4	19.5	15.5	11.5	9.5	7.0	6.0	7.0	5.5	6.0	4.5	10.5	9.5
5	18.5	13.5	11.0	8.0	8.0	6.5	4.0	1.5	7.0	5.5	11.0	10.5
6	18.0	13.5	11.5	7.0	8.5	7.0	1.5	0.5	7.0	6.5	11.5	9.5
7	17.5	13.0	11.0	9.5	7.0	5.5	0.5	0.0	6.5	6.0	12.0	10.0
8	18.0	11.5	9.5	9.0	7.0	5.0	0.5	0.0	6.0	4.0	11.5	8.5
9	16.0	10.5	9.0	8.0	8.0	7.0	0.0	0.0	4.0	1.5	11.0	9.5
10	16.5	10.0	9.0	7.0	8.0	6.0	0.0	0.0	2.0	1.0	13.0	10.0
11	14.5	11.0	8.5	8.0	6.0	4.5	0.0	0.0	2.0	0.5	13.0	11.0
12	15.5	13.5	9.0	7.5	7.0	4.5	0.0	0.0	2.5	0.5	11.5	10.5
13	17.0	11.0	8.5	6.5	7.0	6.5	0.5	0.0	2.5	1.5	12.0	9.0
14	13.0	10.5	9.0	8.0	6.5	5.5	2.0	0.5	4.5	2.5	12.0	12.0
15	15.0	7.5	8.5	6.0	6.0	4.5	2.5	1.0	4.5	3.5	12.5	11.5
16	16.0	10.5	5.0	5.5	4.5	1.5	2.5	0.5	3.5	2.0	12.0	10.5
17	15.0	9.0	6.0	5.5	3.0	0.5	3.5	1.5	2.0	0.5	10.5	8.5
18	10.5	8.0	6.0	5.5	1.5	0.5	5.0	3.0	3.5	1.5	10.5	8.0
19	12.5	6.5	6.5	5.5	2.0	0.5	6.0	5.0	5.5	3.5	10.5	8.0
20	12.0	4.0	7.0	6.5	4.0	2.0	6.0	4.5	6.5	5.5	10.5	8.0
21	9.5	7.0	7.0	6.5	3.5	1.5	5.0	4.0	6.5	5.5	10.0	8.0
22	13.5	9.0	6.5	6.0	3.0	1.5	6.5	5.0	5.5	4.0	10.0	7.5
23	15.0	10.5	6.0	5.0	2.5	1.0	6.5	5.5	6.0	4.0	10.0	9.0
24	10.5	9.0	5.0	4.0	3.5	2.0	5.5	4.5	6.5	4.0	11.5	9.5
25	9.0	6.0	4.0	3.5	3.5	2.0	5.5	4.5	6.5	4.5	11.5	10.5
26	13.5	5.0	4.5	4.0	2.5	1.0	5.5	4.5	6.5	5.5	11.0	10.0
27	9.5	5.5	5.5	4.5	2.0	0.5	6.5	5.5	6.0	5.5	12.0	9.5
28	11.5	9.5	5.5	5.0	3.5	1.0	7.0	6.0	7.0	4.5	12.0	10.5
29	12.0	8.5	5.0	4.0	5.5	3.0	6.0	4.0	---	---	11.5	11.0
30	11.0	7.0	4.0	4.0	7.5	4.0	4.0	3.5	---	---	13.0	11.0
31	11.0	9.0	---	---	8.5	6.0	5.5	4.0	---	---	13.5	11.5
MONTH	19.5	4.0	13.5	3.5	8.5	0.5	7.5	0.0	8.0	0.5	13.5	5.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	15.5	14.5	16.0	14.0	20.0	18.5	23.0	21.5	24.5	23.0
2	11.0	10.0	16.0	15.0	17.0	16.0	21.5	20.0	22.0	20.5	24.5	22.0
3	10.0	9.5	15.5	14.0	19.0	16.5	23.0	20.5	22.0	20.0	24.5	21.5
4	10.0	9.5	14.5	13.0	19.5	18.5	23.0	21.5	22.0	20.0	24.0	21.0
5	9.5	9.0	15.0	13.0	18.5	17.0	23.5	21.5	22.0	20.0	24.0	22.0
6	11.5	8.5	14.0	13.5	18.5	18.0	23.5	21.5	22.0	20.5	23.0	20.5
7	11.5	10.0	14.5	13.5	18.5	17.0	24.0	21.5	23.0	20.5	21.0	18.5
8	12.0	9.5	15.5	14.0	19.0	18.5	24.0	22.0	24.0	21.5	21.0	20.0
9	12.0	9.5	16.0	13.5	21.0	19.0	25.0	22.5	24.0	22.0	21.0	20.5
10	9.5	7.0	16.0	15.5	22.0	20.0	24.5	23.5	24.0	23.0	21.5	20.0
11	10.0	7.0	16.0	14.0	23.5	20.5	24.5	22.0	24.0	22.0	21.5	19.0
12	10.0	9.0	15.0	13.5	24.0	21.5	24.0	20.5	24.5	23.0	21.0	18.0
13	10.0	8.0	14.5	13.5	24.0	21.5	24.0	20.5	23.0	20.0	19.0	17.0
14	11.0	9.0	13.5	12.0	23.5	22.0	23.5	21.5	20.5	19.5	20.5	19.0
15	13.5	10.5	13.5	12.0	23.5	21.5	23.0	21.5	20.0	19.5	20.0	18.0
16	14.0	13.0	15.0	12.0	24.5	22.0	23.5	20.5	21.0	20.0	20.5	16.5
17	13.0	11.0	14.5	13.0	24.5	23.0	21.5	20.5	21.5	20.0	20.5	17.0
18	12.0	12.0	14.5	11.5	25.0	22.0	23.0	21.0	22.0	20.5	17.0	16.0
19	14.0	11.5	16.0	13.0	25.5	23.0	23.0	21.5	23.0	21.0	16.5	14.0
20	15.5	12.0	16.5	14.5	24.0	20.5	23.5	23.0	24.0	21.5	17.0	15.0
21	15.5	12.5	18.0	14.5	22.0	20.5	23.5	20.5	23.0	21.0	19.0	16.5
22	15.5	14.0	17.0	16.0	23.0	20.5	23.5	18.5	21.5	20.0	21.0	18.5
23	14.5	14.0	17.0	16.0	23.5	20.0	23.5	18.5	21.5	19.0	21.0	19.0
24	14.5	12.0	18.5	16.5	23.0	20.0	---	19.5	21.5	20.5	21.5	19.0
25	14.5	12.0	19.0	16.5	23.5	20.0	---	20.5	23.0	20.5	22.5	20.5
26	13.0	11.5	20.0	16.0	24.0	21.5	---	21.5	24.0	21.5	22.0	19.5
27	13.0	12.5	18.0	16.0	23.5	18.5	---	21.5	24.5	22.0	21.5	19.5
28	12.5	11.0	16.0	15.0	18.5	16.0	---	21.5	24.5	22.5	22.0	19.0
29	14.5	11.5	15.0	14.5	18.0	17.0	---	21.5	24.5	23.0	21.5	19.5
30	15.0	14.0	15.0	14.0	18.5	17.0	---	21.5	25.0	23.0	21.0	18.0
31	---	---	15.0	14.5	---	---	---	22.0	24.5	23.0	---	---
MONTH	15.5	7.0	20.0	11.5	25.5	14.0	---	18.5	25.0	19.0	24.5	14.0
YEAR	25.5	0.0										

WABASH RIVER BASIN

03374500 Patoka River near Ellsworth, Ind.

LOCATION.--Lat 38°26'29", long 86°43'31", in SW 1/4 SE 1/4 sec.10, T.1 S., R.3 W., Dubois County, on right bank 200 ft (61 m) upstream from county road bridge, 1.0 mile (1.6 km) northwest of Ellsworth, 2.9 miles (4.7 km) upstream from Dillon Creek, and 4 miles (6 km) east of Dubois.

DRAINAGE AREA.--171 sq mi (443 sq km).

PERIOD OF RECORD.--June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 477.00 ft (145.390 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1961, nonrecording gage on downstream side of bridge, 200 ft (61 m) downstream at same datum.

AVERAGE DISCHARGE.--12 years, 205 cfs (5.806 cu m/s), 16.28 in/yr (414 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,240 cfs (63.4 cu m/s) Apr. 20, gage height, 13.58 ft (4.139 m); minimum daily, 0.76 cfs (0.022 cu m/s) Oct. 19-22.

Period of record: Maximum discharge, 14,700 cfs (416 cu m/s) Mar. 10, 1964, gage height, 20.02 ft (6.102 m); no flow Oct. 30, 1964.

Flood in March 1913 reached a stage of 19.1 ft (5.82 m) according to information by local resident, discharge, 12,300 cfs (348 cu m/s).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	20	101	784	333	72	636	105	173	172	38	3.9
2	2.5	177	88	452	624	70	464	199	168	118	93	3.9
3	1.7	125	76	330	549	76	305	205	582	89	58	3.9
4	1.2	102	67	942	348	85	396	165	368	74	38	3.6
5	1.2	67	62	880	250	184	543	130	255	89	30	3.6
6	1.2	43	227	510	202	283	376	112	392	58	25	3.6
7	1.2	35	638	278	165	654	248	99	235	47	21	2.8
8	1.2	38	963	190	165	1,010	883	476	148	38	19	2.8
9	1.9	58	1,590	150	158	937	1,050	714	105	31	17	3.6
10	1.9	72	1,540	110	138	987	858	596	79	27	16	3.6
11	1.7	60	1,420	95	118	1,540	548	751	63	22	16	3.6
12	1.5	48	864	80	107	1,930	364	458	57	20	36	2.8
13	1.5	86	937	70	103	1,710	258	245	95	17	741	2.8
14	1.5	339	838	65	133	1,390	181	165	472	16	486	3.6
15	1.5	329	532	65	308	1,340	143	130	402	15	181	3.6
16	1.5	142	343	65	295	1,290	135	107	101	14	95	3.9
17	.98	96	211	67	205	1,650	617	93	101	13	62	3.6
18	.98	74	158	70	160	1,720	1,440	79	85	11	41	2.8
19	.76	70	273	101	145	1,570	1,950	70	65	11	31	2.2
20	.76	155	946	133	135	1,290	2,130	63	238	9.9	25	2.2
21	.76	186	874	150	128	1,190	2,030	57	138	776	19	1.7
22	.76	136	555	660	116	961	1,530	53	85	1,700	15	1.5
23	.98	110	323	823	107	508	1,030	83	50	1,460	13	1.5
24	1.2	96	220	575	99	275	997	81	41	1,300	12	1.5
25	1.2	86	170	350	91	295	805	70	49	454	11	1.5
26	1.5	109	148	243	85	895	558	63	32	121	9.9	1.5
27	1.5	137	133	300	81	952	440	962	942	85	9.2	1.7
28	1.7	140	118	384	78	591	243	1,000	1,470	67	8.0	1.7
29	1.9	131	107	506	-----	372	160	654	1,260	52	7.5	1.9
30	2.2	112	103	426	-----	608	123	384	766	41	6.5	2.5
31	3.6	-----	582	310	-----	656	-----	263	-----	36	5.2	-----
TOTAL	46.88	3,379	15,207	10,164	5,426	27,091	21,441	8,632	9,017	6,983.9	2,185.3	83.4
MEAN	1.51	113	491	328	194	874	715	178	301	225	70.5	2.78
MAX	3.6	339	1,590	942	624	1,930	2,130	1 00	1,470	1,700	741	3.9
MIN	.76	20	62	65	78	70	123	53	32	9.9	5.2	1.5
CFSM	.009	.66	2.87	1.92	1.13	5.11	4.18	1.63	1.76	1.32	.41	.02
IN.	.01	.74	3.31	2.21	1.18	5.89	4.66	1.88	1.96	1.52	.48	.02

CAL YR 1972 TOTAL 92,696.18 MEAN 253 MAX 3,370 MIN .18 CFSM 1.48 IN 20.17
WTR YR 1973 TOTAL 109,656.48 MEAN 300 MAX 2,130 MIN .76 CFSM 1.75 IN 23.86

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-09	1300	12.52	1,640	04-20	1800	13.58	2,240
03-12	0100	13.26	2,030	06-28	0500	12.40	1,590
03-17	2000	12.86	1,810	07-22	1300	12.84	1,800

03375500 Patoka River at Jasper, Ind.

LOCATION.--Lat 38°24'49", long 86°52'36", in NW 1/4 SE 1/4 sec.20, T.1 S., R.4 W., Dubois County, on left bank 0.3 mile (0.5 km) upstream from unnamed outlet of Jasper Lake, 1.0 mile (1.6 km) downstream from Coon Seitz bridge, 1.2 miles (1.9 km) downstream from Beaver Creek, and 3.3 miles (5.3 km) northeast of Jasper.

DRAINAGE AREA.--262 sq mi (679 sq km).

PERIOD OF RECORD.--November 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 446.19 ft (135.999 m) above mean sea level. Nonrecording gage at bridge 5.6 miles (9.0 km) downstream, used for high-water periods when flow exceeds about 1,500 cfs (42.5 cu m/s), at datum 0.34 ft (0.104 m) lower. Prior to Sept. 18, 1956, nonrecording gage at bridge 5.6 miles (9.0 km) downstream at datum 0.34 ft (0.104 m) lower.

AVERAGE DISCHARGE.--25 years (1948 to current year), 349 cfs (9.884 cu m/s), 18.09 in/yr (459 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,350 cfs (66.6 cu m/s) Apr. 21, gage height, 14.89 ft (4.538 m); minimum daily, 0.83 cfs (0.024 cu m/s) Oct. 30.

Period of record: Maximum discharge, 14,100 cfs (399 cu m/s) Mar. 11, 1964, gage height, 15.17 ft (4.624 m) at downstream gage; maximum gage height at upstream gage, 21.20 ft (6.462 m) Mar. 11, 1964, from floodmarks; no flow at times during 1948, 1952-56, 1963-65.

Flood in March 1913 reached a stage of 15.9 ft (4.85 m), at downstream site, from floodmark furnished by local residents, discharge 16,000 cfs (453 cu m/s).

REMARKS.--Records good. Flow partially regulated by Beaver Creek Reservoir. (See sta 03375200).

REVISIONS (WATER YEARS).--WSP 1909: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	8.6	133	660	457	87	939	247	329	1,660	46	8.1
2	3.1	39	109	705	843	82	856	270	334	958	43	7.7
3	2.7	81	87	558	888	86	677	324	976	269	76	7.7
4	2.2	107	73	1,000	667	96	599	286	937	127	62	6.0
5	10	93	64	1,100	469	186	709	221	978	94	43	5.3
6	3.8	63	104	1,060	365	326	689	172	967	94	34	4.6
7	9.6	44	401	690	297	580	556	141	852	71	28	4.6
8	3.8	36	865	390	269	967	755	574	452	54	23	4.2
9	1.9	34	1,120	278	256	1,080	1,050	858	281	47	20	4.2
10	1.8	38	1,230	209	224	1,170	1,180	865	185	40	17	3.7
11	9.0	58	1,370	155	187	1,530	1,210	935	131	34	15	3.4
12	2.8	60	1,560	130	161	1,640	944	816	109	29	18	14
13	8.8	111	1,740	120	146	1,960	614	505	147	25	673	16
14	3.4	495	1,660	111	191	2,120	464	327	188	22	881	5.6
15	1.7	524	1,550	104	399	2,090	370	231	769	20	531	2.6
16	1.6	404	1,110	102	459	1,980	323	175	438	19	238	2.7
17	8.5	202	526	105	381	2,040	477	138	179	16	106	2.9
18	3.2	108	299	110	288	2,050	1,140	109	149	15	68	12
19	1.2	86	300	143	235	2,070	1,520	89	123	13	51	17
20	7.8	136	831	176	212	2,080	1,990	75	229	11	40	6.5
21	3.1	233	1,050	226	195	2,020	2,340	64	256	460	31	3.0
22	1.1	258	1,040	578	179	1,880	2,300	59	176	1,220	26	2.9
23	1.1	185	792	982	158	1,680	2,230	62	113	1,510	22	4.0
24	7.9	131	513	985	140	1,510	1,990	80	70	1,890	19	5.4
25	3.3	108	334	688	124	996	1,770	78	63	1,920	17	10
26	.87	129	259	463	113	1,020	1,600	67	63	1,690	14	6.1
27	7.2	221	217	422	102	1,140	1,230	381	666	784	13	3.1
28	2.9	266	198	490	93	1,190	706	1,010	1,330	193	12	2.1
29	.86	232	179	620	-----	993	410	1,100	1,550	89	11	2.2
30	.83	175	164	610	-----	843	298	872	1,710	65	19	6.0
31	1.8	-----	305	503	-----	906	-----	482	-----	53	18	-----
TOTAL	121.36	4,665.6	20,183	14,473	8,498	38,398	31,936	11,613	14,750	13,492	3,215	183.6
MEAN	3.91	156	651	467	304	1,239	1,065	375	492	435	104	6.12
MAX	10	524	1,740	1,100	888	2,120	2,340	1,100	1,710	1,920	881	17
MIN	.83	8.6	64	102	93	82	298	59	63	11	11	2.1
CFSM	.01	.60	2.48	1.78	1.16	4.73	4.06	1.43	1.88	1.66	.40	.02
IN.	.02	.66	2.87	2.05	1.21	5.45	4.53	1.65	2.09	1.92	.46	.03

CAL YR 1972 TOTAL 134,943.36 MEAN 369 MAX 5,440 MIN .83 CFSM 1.41 IN 19.16
WTR YR 1973 TOTAL 161,528.56 MEAN 443 MAX 2,340 MIN .83 CFSM 1.69 IN 22.93

WABASH RIVER BASIN

03375800 Hall Creek near St. Anthony, Ind.

LOCATION.—Lat 38°21'45", long 86°49'43", in NW 1/4 NW 1/4 sec.11, T.2 S., R.4 W., Dubois County, on downstream side of right pier of bridge on County Road 125 South, and 3.3 miles (5.3 km) north of St. Anthony.

DRAINAGE AREA.—21.8 sq mi (56.5 sq km).

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Altitude of the gage is 460 ft (140 m), from river-profile survey.

EXTREMES.—Current year: Maximum discharge, 517 cfs (14.6 cu m/s) July 21, gage height, 10.93 ft (3.331 m); no flow for many days in October.

Period of record: Maximum discharge, 584 cfs (16.5 cu m/s) Apr. 12, 1972, gage height, 11.43 ft (3.484 m); minimum daily, no flow for many days in June, July, Sept., and Oct. 1972.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	6.4	5.8	22	67	8.5	35	12	8.0	4.3	.79	.32
2	.08	12	5.0	14	70	8.9	28	32	65	3.3	.55	.29
3	.01	3.4	4.4	130	41	12	23	18	59	2.6	.51	.29
4	0	1.0	4.0	108	30	20	51	12	19	4.1	.47	.29
5	0	.51	3.7	39	26	39	34	10	24	2.2	.43	.29
6	0	.32	34	21	21	26	26	8.5	18	1.7	.43	.29
7	0	.73	11	14	19	129	34	8.2	9.6	1.4	.43	.29
8	0	3.8	350	10	23	51	149	102	6.7	1.1	.43	.26
9	0	1.6	157	8.0	18	52	66	26	5.2	.94	.47	.32
10	0	1.6	44	6.0	16	71	52	130	4.1	.85	.43	.35
11	0	1.6	19	5.3	14	438	40	43	3.5	.79	.39	.32
12	0	.94	51	4.0	13	114	32	21	5.5	.61	10	.29
13	0	49	191	4.1	12	60	24	14	5.0	.55	94	.29
14	0	26	40	4.4	66	181	20	11	41	1.2	12	.29
15	0	8.4	27	4.7	60	135	17	8.5	8.1	1.6	2.0	.35
16	0	6.0	20	4.7	30	165	30	7.3	4.7	.73	.94	.29
17	0	4.7	16	5.8	24	343	122	6.5	13	.55	.67	.29
18	0	3.6	12	7.6	19	125	393	5.6	5.1	.47	.55	.32
19	0	11	156	13	17	70	284	5.2	4.7	.47	.51	.29
20	0	12	135	8.9	17	116	192	4.5	17	.43	.47	.29
21	0	7.8	41	52	15	77	61	4.1	4.3	277	.43	.32
22	0	7.3	23	109	13	45	74	7.7	2.9	63	.39	.32
23	0	6.3	16	57	13	33	152	8.0	2.2	8.5	.39	.32
24	0	5.1	12	32	11	26	83	5.4	2.5	4.9	.43	.35
25	0	7.2	10	24	9.9	107	47	4.9	2.4	3.3	.47	.55
26	0	18	10	24	9.5	140	30	4.6	1.5	2.3	.39	.23
27	0	14	8.5	46	8.7	61	20	91	170	1.6	.35	.16
28	0	9.3	8.4	51	8.2	41	14	21	27	1.1	.35	.12
29	0	7.5	7.8	45	-----	43	12	17	8.5	.79	.32	.10
30	0	6.9	17	31	-----	42	9.9	14	5.4	.67	.32	.05
31	.02	-----	66	27	-----	46	-----	9.9	-----	.73	.32	-----
TOTAL	.58	244.00	1,505.6	932.5	691.3	2,825.4	2,154.9	672.9	552.9	393.78	130.63	8.53
MEAN	.019	8.13	48.6	30.1	24.7	91.1	71.8	21.7	18.4	12.7	4.21	.28
MAX	.47	49	350	130	70	438	393	130	170	277	94	.55
MIN	0	.32	3.7	4.0	8.2	8.5	9.9	4.1	1.5	.43	.32	.05
CFSM	.0009	.37	2.23	1.38	1.13	4.18	3.29	1.00	.84	.58	.19	.01
IN.	0	.42	2.57	1.59	1.18	4.82	3.68	1.15	.94	.67	.22	.01

CAL YR 1972 TOTAL 9,211.28 MEAN 25.2 MAX 448 MIN 0 CFSM 1.16 IN 15.72
WTR YR 1973 TOTAL 10,113.02 MEAN 27.7 MAX 438 MIN 0 CFSM 1.27 IN 17.26

PEAK DISCHARGE (BASE, 400 CFS,

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-08	1845	10.63	487	03-11	0945	10.91	515	04-19	2245	10.30	454
12-13	0130	10.23	447	03-14	1830	10.32	456	06-27	1500	10.34	458
12-19	1700	9.81	405	03-17	0145	10.37	461	07-21	1230	10.93	517
01-03	1945	10.16	440	04-18	0945	10.74	498				

03376260 Flat Creek near Otwell, Ind.

LOCATION.—Lat 38°26'12", long 87°07'52", in SE 1/4 SE 1/4 sec.12, T.1 S., R.7 W., Pike County, on right bank at upstream side of bridge on State Highway 56, 2.2 miles (3.5 km) west of intersection of State Highways 56 and 257, 2.5 miles (4.0 km) southeast of Otwell, and 6.2 miles (10.0 km) east of junction of State Highways 56 and 61.

DRAINAGE AREA.—21.3 sq mi (55.2 sq km).

PERIOD OF RECORD.—October 1964 to current year.

GAGE.—Water-stage recorder. Datum of gage is 448.00 ft (136.550 m) above mean sea level.

AVERAGE DISCHARGE.—9 years, 19.8 cfs (0.561 cu m/s), 12.62 in/yr (321 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,040 cfs (29.5 cu m/s) Apr. 19, gage height, 11.33 ft (3.453 m); no flow Oct. 1, 2, 5-8, 17-30.

Period of record: Maximum discharge, 1,320 cfs (37.4 cu m/s) Feb. 9 or 10, 1965, gage height, 11.89 ft (3.624 m) from recorded range in stage; no flow at times each year.

Flood in March 1964 reached a stage of 12.58 ft (3.834 m).

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	8.4	4.4	19	45	5.7	38	23	7.1	6.9	3.0	1.4
2	0	35	3.5	12	43	5.8	37	39	7.9	5.7	3.1	1.6
3	.05	8.2	3.3	134	23	8.0	22	18	9.6	4.9	3.1	1.8
4	.13	2.0	3.0	102	15	8.2	37	9.9	8.8	4.9	2.8	1.5
5	0	1.5	3.4	21	13	21	21	7.7	28	5.0	3.1	1.3
6	0	1.3	40	10	10	12	14	6.9	66	4.5	2.9	1.2
7	0	1.6	13	7.0	9.0	26	20	7.5	14	4.4	3.0	1.0
8	0	3.1	190	5.6	12	16	83	94	7.1	4.2	2.6	1.1
9	.45	2.3	88	4.6	11	15	32	26	5.9	4.4	3.2	1.5
10	.65	2.5	34	3.9	8.8	47	25	294	5.1	4.5	3.6	1.5
11	.57	5.4	15	3.5	7.7	517	16	51	5.1	4.7	3.1	1.1
12	.41	3.2	35	3.0	8.2	43	13	18	6.7	3.4	7.7	1.1
13	.41	125	132	3.5	9.6	21	9.9	11	5.0	2.9	22	1.5
14	.80	149	24	4.0	54	101	8.8	9.6	5.8	293	4.4	1.4
15	.37	16	17	5.8	46	63	8.0	9.1	31	34	2.7	1.1
16	.09	7.7	10	6.4	14	50	30	9.1	21	7.8	2.5	.61
17	0	5.0	6.0	6.9	12	377	74	8.2	5.6	6.3	3.1	.95
18	0	4.4	5.0	9.6	10	69	597	8.7	4.8	5.0	3.0	1.6
19	0	30	62	96	9.0	30	287	8.5	8.1	4.9	3.0	1.4
20	0	32	109	22	9.0	96	426	6.8	24	5.0	2.8	1.5
21	0	9.9	33	73	8.2	53	38	6.2	5.7	71	2.7	1.8
22	0	8.5	21	113	7.2	22	203	8.0	4.6	76	2.7	1.4
23	0	7.5	15	46	6.6	16	136	8.1	4.9	6.4	2.0	3.1
24	0	4.6	13	19	6.0	13	50	6.7	4.0	4.8	1.8	1.4
25	0	9.6	12	14	5.9	45	89	7.2	3.8	3.7	2.3	1.3
26	0	43	12	14	5.9	99	37	6.9	3.7	4.8	2.0	1.7
27	0	35	11	31	6.2	31	21	42	381	3.3	3.0	1.4
28	0	14	10	34	6.3	18	13	15	100	3.5	2.3	1.5
29	0	6.0	9.9	30	-----	68	9.9	13	15	3.4	1.9	11
30	0	5.1	22	15	-----	59	8.5	9.7	8.6	2.6	2.7	2.0
31	.14	-----	72	14	-----	125	-----	7.7	-----	3.2	6.6	-----
TOTAL	4.07	586.8	1,028.5	882.8	421.6	2,080.7	2,404.1	796.5	807.9	599.1	114.7	52.76
MEAN	.13	19.6	33.2	28.5	15.1	67.1	80.1	25.7	26.9	19.3	3.70	1.76
MAX	.80	149	190	134	54	517	597	294	381	293	22	11
MIN	0	1.3	3.0	3.0	5.9	5.7	8.0	6.2	3.7	2.6	1.8	.61
CFSM	.006	.92	1.56	1.34	.71	3.15	3.76	1.21	1.26	.91	.17	.08
IN.	.007	1.02	1.80	1.54	.74	3.63	4.20	1.39	1.41	1.05	.20	.09

CAL YR 1972 TOTAL 8,249.89 MEAN 22.5 MAX 804 MIN 0 CFSM 1.06 IN 14.41
WTR YR 1973 TOTAL 9,779.53 MEAN 26.8 MAX 597 MIN 0 CFSM 1.26 IN 17.08

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	2300	9.95	502	03-17	0500	10.24	604	06-27	1400	10.92	808
01-03	2000	9.93	496	04-19	2400	11.33	1,040	07-14	1700	10.85	820
03-11	0900	10.78	793	05-10	1400	10.64	744	07-21	2300	9.84	464

03376300 Patoka River at Winslow, Ind.

LOCATION.--Lat 38°22'48", long 87°13'00", in SW 1/4 SW 1/4 sec.32, T.1 S., R.7 W., Pike County, on right bank at abandoned bridge abutment, 65 ft (20 m) upstream from bridge on State Highway 61, 100 ft (30 m) downstream from dam of Winslow Water Company, and 41.3 miles (66.5 km) above mouth.

DRAINAGE AREA.--603 sq mi (1,562 sq km).

PERIOD OF RECORD.--October 1963 to current year. Discharge measurements and gage readings June 1961 to Sept. 1963, obtained by Indiana Flood Control and Water Resources Commission, are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Nov. 21, 1963, nonrecording gage on downstream side of bridge 65 ft (20 m) downstream at same datum.

AVERAGE DISCHARGE.--10 years, 667 cfs (18.89 cu m/s), 15.02 in/yr (382 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,140 cfs (146 cu m/s) Mar. 20, gage height, 24.82 ft (7.565 m); minimum daily, 0.68 cfs (0.019 cu m/s) Oct. 13, 15.

Period of record: Maximum discharge, 15,500 cfs (439 cu m/s) Mar. 13, 1964, gage height, 28.84 ft (8.790 m); minimum daily, 0.5 cfs (0.014 cu m/s) Aug. 5, 1964.

Flood in January 1937 reached a stage of 28.9 ft (8.81 m), from floodmarks, information from Indiana Flood Control and Water Resources Commission.

REMARKS.--Record poor. An average 0.13 cfs (0.004 cu m/s) is diverted for municipal water supply 100 ft (30 m) above gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FFB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	35	434	1,150	1,150	223	2,700	2,800	935	1,150	457	15
2	3.1	118	381	1,400	1,220	213	2,530	2,480	880	1,140	226	10
3	3.1	226	324	1,300	1,270	217	2,310	2,130	988	1,140	114	8.0
4	3.9	261	271	1,360	1,290	240	2,140	1,750	1,060	1,160	67	7.3
5	7.4	207	235	1,400	1,290	309	1,960	1,410	1,220	1,130	48	6.3
6	9.6	161	263	1,400	1,270	407	1,780	1,100	1,400	965	57	5.1
7	17	153	402	1,380	1,170	514	1,610	786	1,370	664	56	4.0
8	22	146	834	1,350	1,010	768	1,620	858	1,330	369	41	3.2
9	10	125	1,450	1,300	844	952	1,580	1,060	1,300	192	28	3.3
10	3.2	125	1,440	1,200	691	1,170	1,530	1,260	1,200	109	23	3.7
11	1.1	116	1,440	800	551	1,930	1,490	1,360	980	79	18	3.3
12	.72	100	1,520	600	462	2,110	1,460	1,330	688	57	15	2.9
13	.68	185	1,690	462	413	2,050	1,370	1,310	448	43	111	2.4
14	.72	704	1,750	428	447	2,180	1,390	1,290	340	52	419	2.2
15	.68	880	1,820	378	760	2,620	1,350	1,220	291	166	690	2.1
16	.84	862	1,870	330	949	2,960	1,270	1,040	384	432	680	2.1
17	.88	768	1,900	317	938	3,610	1,310	792	560	323	570	2.4
18	.92	611	1,930	345	837	4,410	1,990	537	507	177	400	3.0
19	1.0	465	1,700	451	702	4,940	2,350	352	383	103	220	3.3
20	1.2	458	1,900	545	578	5,060	2,780	254	322	66	109	3.0
21	1.5	507	1,970	559	494	4,820	2,990	202	280	70	74	2.7
22	1.6	466	1,950	942	441	4,520	3,530	178	262	465	49	2.4
23	1.9	443	1,900	1,200	397	4,200	4,180	197	241	710	33	2.2
24	1.5	433	1,780	1,240	360	3,930	4,350	207	193	794	23	2.3
25	1.4	389	1,500	1,240	320	3,690	4,310	178	147	840	17	4.7
26	1.7	380	1,000	1,240	287	3,550	4,250	158	106	890	14	6.3
27	2.2	454	780	1,270	262	3,420	4,130	365	329	942	11	6.3
28	2.5	511	600	1,260	239	3,230	3,860	686	1,080	985	8.9	5.9
29	2.7	501	500	1,240	-----	3,090	3,550	810	1,160	1,020	7.6	8.8
30	2.6	475	600	1,210	-----	2,930	3,190	885	1,160	998	7.0	12
31	5.7	-----	1,000	1,160	-----	2,840	-----	928	-----	776	9.5	-----
TOTAL	117.34	11,265	37,134	30,457	20,642	77,103	74,860	29,913	21,544	18,007	4,603.0	146.2
MEAN	3.79	376	1,198	982	737	2,487	2,495	965	718	581	148	4.87
MAX	22	880	1,970	1,400	1,290	5,060	4,350	2,800	1,400	1,160	690	15
MIN	.68	35	235	317	239	213	1,270	158	106	43	7.0	2.1
CFSM	.006	.62	1.99	1.63	1.22	4.12	4.14	1.60	1.19	.96	.25	.008
IN.	.007	.69	2.29	1.88	1.27	4.76	4.62	1.85	1.33	1.11	.28	.009

CAL YR 1972 TOTAL 261,192.29 MEAN 714 MAX 4,200 MIN .58 CFSM 1.18 IN 16.11
WTR YR 1973 TOTAL 325,791.54 MEAN 893 MAX 5,060 MIN .68 CFSM 1.48 IN 20.10

NOTE.--No gage-height record Dec. 14 to Jan. 12.

03376350 South Fork Patoka River near Spurgeon, Ind.

LOCATION.--Lat 38°17'50", long 87°15'39", in SE 1/4 NE 1/4 sec.35, T.2 S., R.8 W., Pike County, on right bank at downstream side of bridge on State Highway 61, 0.5 mile (0.8 km) north of Enos Corner, and 3.1 miles (5.0 km) north of Spurgeon.

DRAINAGE AREA.--42.8 sq mi (110.9 sq km).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 420.88 ft (128.284 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 42.7 cfs (1.209 cu m/s), 13.55 in/yr (344 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,040 cfs (29.5 cu m/s) Apr. 18, gage height, 10.19 ft (3.106 m); minimum daily, 3.5 cfs (0.099 cu m/s) Oct. 11.

Period of record: Maximum discharge, 1,380 cfs (39.1 cu m/s) Apr. 28, 1970, gage height, 12.79 ft (3.898 m); minimum daily, 2.3 cfs (0.065 cu m/s) Nov. 10, 14, 1964, Aug. 22, 24, 25, 1965.

Flood in March 1964 reached a stage of 13.09 ft (3.99 m), from floodmarks.

REMARKS.--Records good. Some slight regulation by coal-washing operation and strip-mining above gage.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	55	14	43	110	18	106	81	41	41	11	9.4
2	4.5	64	13	30	113	23	87	169	81	38	10	9.0
3	4.1	16	13	183	79	35	66	87	156	51	9.9	9.0
4	4.2	9.0	13	161	55	43	111	66	88	61	9.4	8.5
5	4.5	7.9	12	67	48	62	72	56	164	41	11	7.6
6	4.2	7.5	89	44	44	39	59	54	164	36	11	7.6
7	3.9	18	29	35	41	73	75	59	62	28	9.8	6.3
8	3.8	14	404	27	56	45	230	296	45	21	9.4	7.2
9	3.8	8.5	189	25	41	96	121	108	40	20	9.3	11
10	3.6	20	87	23	35	132	90	214	36	18	9.5	10
11	3.5	12	52	21	34	621	67	122	30	20	9.4	7.6
12	3.8	8.6	76	18	33	158	57	79	37	16	97	6.8
13	4.4	181	195	15	31	94	48	63	117	14	257	6.3
14	4.4	145	67	13	148	261	44	54	134	36	40	6.8
15	4.2	38	54	13	90	197	41	48	58	30	24	6.3
16	4.6	25	40	13	50	167	106	45	49	18	17	6.8
17	4.5	20	35	15	39	422	167	43	58	14	12	6.8
18	4.7	16	32	23	40	206	549	40	43	13	11	5.9
19	4.4	74	110	46	32	130	404	39	106	12	12	5.4
20	4.2	49	125	27	32	194	336	38	73	13	11	5.0
21	4.4	27	63	121	29	146	156	35	42	23	8.5	5.0
22	4.7	26	43	167	25	91	248	78	37	83	8.1	5.0
23	6.4	19	32	87	24	73	315	54	32	39	7.6	5.9
24	5.5	15	29	52	22	63	166	44	29	20	8.1	5.4
25	5.3	30	27	45	22	106	150	40	27	17	9.0	5.9
26	5.4	52	27	54	22	212	114	37	26	15	10	3.7
27	6.1	40	23	96	20	118	93	199	343	14	9.0	3.7
28	7.9	25	21	79	18	79	78	87	173	13	7.6	29
29	6.1	15	19	60	-----	90	72	72	63	14	7.2	10
30	5.7	15	72	49	-----	130	66	56	46	14	7.6	5.0
31	38	-----	116	44	-----	166	-----	45	-----	12	12	-----
TOTAL	179.9	1,052.5	2,121	1,696	1,333	4,290	4,294	2,508	2,400	805	685.4	227.9
MEAN	5.80	35.1	68.4	54.7	47.6	138	143	80.9	80.0	26.0	22.1	7.60
MAX	38	181	404	183	148	621	549	296	343	83	257	29
MIN	3.5	7.5	12	13	18	18	41	35	26	12	7.2	3.7
CFSM	.14	.82	1.60	1.28	1.11	3.22	3.34	1.89	1.87	.61	.52	.18
IN.	.16	.91	1.84	1.47	1.16	3.73	3.73	2.18	2.09	.70	.60	.20

CAL YR 1972 TOTAL 16,616.5 MEAN 45.4 MAX 785 MIN 3.5 CFMS 1.06 IN 14.44
WTR YR 1973 TOTAL 21,592.7 MEAN 59.2 MAX 621 MIN 3.5 CFMS 1.38 IN 18.77

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-08	1600	7.32	690	03-17	0500	6.37	581	06-13	2200	5.89	529
01-03	1900	6.67	614	04-18	0700	10.19	1,040	06-27	1400	9.22	919
03-11	0200	9.45	948	04-19	2200	9.83	998	08-12	2400	9.14	909
03-14	1800	6.92	642	05-08	0400	6.48	593				

WABASH RIVER BASIN

03376500 Patoka River near Princeton, Ind.

LOCATION.—Lat 38°23'30", long 87°32'55", in Location 107, T.1 S., R.10 W., Gibson County, on left bank 75 ft (23 m) upstream from dam of Princeton Water and Lighting Co., 0.1 mile (0.2 km) downstream from bridge on State Highway 65, 0.5 mile (0.8 km) downstream from Indian Creek, and 2 miles (3 km) northeast of Princeton.

DRAINAGE AREA.—822 sq mi (2,129 sq km).

PERIOD OF RECORD.—August 1934 to September 1973 (discontinued as a continuous-recorder station; converted to a crest-stage and low-flow partial-recorder station). Published as "at Patoka" August 1934 to September 1940. Records published for both sites October 1939 to September 1940 (monthly discharge only at present site, for October, November 1939, published in WSP 1305).

GAGE.—Water-stage recorder and concrete control. Datum of gage is 394.14 ft (120.134 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). See WSP 1725 for history of changes prior to Jan. 21, 1941.

AVERAGE DISCHARGE.—39 years, 974 cfs (27.58 cu m/s), 16.09 in/yr (409 mm/yr).

EXTREMES.—Current year: Maximum discharge, 5,300 cfs (150 cu m/s) Mar. 26, gage height, 16.42 ft (5.005 m); minimum daily, 6.2 cfs (0.18 cu m/s) Oct. 21.

Period of record: Maximum discharge, 18,700 cfs (530 cu m/s) Jan. 26, 1937, gage height, 26.80 ft (8.169 m), site and datum then in use; no flow Aug. 29 to Sept. 12, 1936.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1275: 1952. WSP 1335: 1935-36, 1938-39, 1940(M), 1949-50. WSP 1385: 1951-52. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	108	609	1,830	1,500	370	4,120	4,110	1,050	1,380	1,100	60
2	31	513	572	1,670	1,590	342	3,960	3,970	1,080	1,390	906	60
3	28	507	502	1,590	1,570	390	3,750	3,700	1,190	1,380	488	53
4	27	392	397	1,620	1,560	437	3,610	3,500	1,190	1,380	218	48
5	27	361	301	1,580	1,550	568	3,430	3,280	1,260	1,380	134	46
6	31	243	365	1,580	1,530	603	3,260	3,070	1,640	1,370	115	44
7	33	202	503	1,600	1,510	677	3,100	2,860	1,570	1,350	112	42
8	41	223	834	1,600	1,500	769	3,000	2,720	1,570	1,300	100	38
9	43	195	1,180	1,600	1,460	860	2,910	2,530	1,580	1,140	90	40
10	33	166	1,200	1,580	1,390	1,030	2,810	2,550	1,570	773	83	44
11	24	181	1,240	1,540	1,280	1,560	2,690	2,490	1,550	431	70	44
12	17	158	1,330	1,470	1,130	1,610	2,570	2,340	1,510	222	85	38
13	14	439	1,490	1,320	958	1,740	2,450	2,210	1,460	154	785	36
14	14	1,060	1,560	1,070	890	1,970	2,330	2,110	1,360	234	808	34
15	12	1,010	1,640	787	996	2,190	2,210	2,010	1,150	468	794	32
16	12	974	1,680	622	1,000	2,350	2,130	1,910	899	366	853	30
17	9.3	959	1,720	574	1,020	2,750	2,080	1,810	807	530	884	29
18	9.0	931	1,760	596	1,030	3,000	2,290	1,710	826	366	820	29
19	7.7	917	1,840	854	1,040	3,290	2,580	1,580	845	202	569	30
20	6.6	923	1,990	870	1,010	3,680	3,060	1,360	861	127	282	30
21	6.2	822	2,070	882	926	4,200	3,430	1,060	701	134	182	29
22	9.9	748	2,130	1,170	817	4,680	3,790	772	587	413	130	29
23	10	680	2,180	1,200	715	5,000	4,060	650	523	713	100	65
24	12	633	2,230	1,210	635	5,080	4,120	596	444	850	85	40
25	13	606	2,230	1,250	586	5,150	4,280	536	374	926	80	103
26	11	634	2,220	1,300	544	5,270	4,450	409	250	972	75	42
27	9.3	657	2,190	1,370	488	5,080	4,440	690	903	1,010	68	38
28	11	652	2,160	1,430	428	4,780	4,410	880	1,330	1,040	63	36
29	14	647	2,100	1,480	-----	4,490	4,380	914	1,300	1,070	55	75
30	17	634	2,030	1,490	-----	4,260	4,260	963	1,340	1,100	55	65
31	20	-----	1,980	1,500	-----	4,180	-----	1,010	-----	1,120	55	-----
TOTAL	592.0	17,175	46,233	40,235	30,653	82,356	99,960	60,300	32,720	25,291	10,244	1,329
MFAN	19.1	573	1,491	1,298	1,095	2,657	3,332	1,945	1,091	816	330	44.3
MAX	43	1,060	2,230	1,830	1,590	5,270	4,450	4,110	1,640	1,390	1,100	103
MIN	6.2	108	301	574	428	342	2,080	409	250	127	55	29
CFSM	.02	.70	1.81	1.58	1.33	3.23	4.05	2.37	1.33	.99	.40	.05
IN.	.03	.78	2.09	1.82	1.39	3.73	4.52	2.73	1.48	1.14	.46	.06
CAL YR 1972	TOTAL	371,954.0	MFAN	1.016	MAX	10,100	MIN	6.2	CFSM	1.24	IN	16.83
WTR YR 1973	TOTAL	447,088.0	MFAN	1.225	MAX	5,270	MIN	6.2	CFSM	1.49	IN	20.23

03377500 Wabash River at Mount Carmel, Ill.

LOCATION.—Lat 38°24'07", long 87°45'10", in SE 1/4 NW 1/4 sec.28, T.1 S., R.12 W., Wabash County, on right bank on downstream side of Southern Railway bridge at Mount Carmel, 0.1 mile (0.2 km) downstream from Patoka River, and at mile 94.5 (152.0 km).

DRAINAGE AREA.—28,635 sq mi (74,165 sq km) (revised).

PERIOD OF RECORD.—January 1908 to September 1913 (gage heights only), October 1927 to current year. Gage-height records collected in this vicinity November 1874 to December 1878, are contained in files of Louisville office of the Corps of Engineers and since June 1884, are contained in reports of U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 371.46 ft (113.221 m) above mean sea level. See WSP 1725 for history of changes prior to Sept. 30, 1949.

AVERAGE DISCHARGE.—46 years, 26,496 cfs (750.4 cu m/s), 12.56 in/yr (319 mm/yr).

EXTREMES.—Current year: Maximum discharge, 115,000 cfs (3,260 cu m/s) Mar. 22, gage height, 23.23 ft (7.081 m); minimum daily, 6,870 cfs (195 cu m/s) Sept. 29.

Period of record: Maximum discharge, 305,000 cfs (8,640 cu m/s) May 25, 1943, maximum gage height, 28.62 ft (8.723 m) Feb. 5, 6, 1969; minimum daily discharge, 1,650 cfs (46.7 cu m/s) Sept. 27, 28, 1941.

1874-78, 1884 to current year: Maximum discharge, 428,000 cfs (12,100 cu m/s), from rating curve extended above 310,000 cfs (8,780 cu m/s) Mar. 30, 1913, gage height, 31.0 ft (9.45 m), present site and datum.

REMARKS.—Records good. Natural flow of stream affected by storage reservoirs and power development.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	31,400	15,700	49,900	53,200	44,300	20,400	95,100	104,000	24,300	43,300	47,600	10,900	
2	34,700	20,500	48,000	55,900	47,100	19,700	96,300	95,300	25,800	43,400	41,600	10,400	
3	35,500	33,200	46,100	58,900	50,800	19,500	96,500	81,200	27,000	42,900	35,900	9,910	
4	35,000	43,500	44,000	63,600	52,500	19,500	95,400	66,600	28,200	40,100	31,600	9,430	
5	34,500	48,900	41,300	70,400	53,500	20,700	93,000	57,400	29,300	36,500	28,300	8,920	
6	33,800	51,100	38,500	78,400	53,900	24,900	90,200	51,100	36,200	32,200	25,000	8,560	
7	32,400	52,000	37,500	84,200	54,300	29,900	87,700	46,900	45,800	28,700	21,900	8,250	
8	30,600	53,600	39,400	86,700	54,500	35,000	84,800	45,400	51,900	26,400	19,500	7,990	
9	28,700	55,000	47,100	86,100	53,100	38,800	81,100	45,000	54,500	24,800	17,800	8,010	
10	26,600	55,300	53,400	82,800	49,900	44,300	77,000	44,500	55,200	22,600	17,200	7,890	
11	24,700	54,200	56,100	74,400	46,300	53,400	72,300	43,300	55,900	20,100	16,000	7,730	
12	22,700	52,100	56,600	62,000	42,200	62,500	64,100	40,200	56,500	18,900	15,300	7,530	
13	20,400	50,100	58,100	53,100	37,700	68,900	64,200	37,500	56,000	18,700	17,700	7,430	
14	18,400	53,300	61,600	43,600	33,700	75,600	60,600	35,200	52,600	17,500	17,500	7,360	
15	18,500	58,700	64,800	37,000	31,300	81,800	57,100	32,700	46,900	16,500	16,200	7,130	
16	19,500	62,200	66,800	34,200	30,900	87,400	54,000	30,500	42,400	15,300	18,300	7,220	
17	19,500	64,600	67,500	33,200	30,700	93,700	52,100	28,500	39,800	14,000	23,200	8,290	
18	18,700	66,300	66,700	33,400	30,500	101,000	53,300	26,800	38,100	12,900	26,400	8,380	
19	17,500	68,200	66,400	36,200	30,400	108,000	57,500	25,400	38,000	12,000	28,800	8,020	
20	16,400	70,800	63,700	39,600	29,900	112,000	64,100	24,100	42,900	11,400	29,600	7,590	
21	15,600	73,000	59,600	41,100	28,700	114,000	70,900	22,600	48,800	11,200	28,500	7,400	
22	14,900	74,900	57,300	44,300	27,200	115,000	78,600	21,500	51,800	23,300	25,300	7,340	
23	14,200	75,700	57,100	46,800	25,800	115,000	86,600	21,000	51,900	43,700	22,100	7,290	
24	13,100	74,500	57,300	47,700	24,500	114,000	91,400	20,600	48,900	49,900	19,500	7,080	
25	12,900	70,000	57,500	48,200	23,600	112,000	97,300	20,300	42,900	49,800	18,000	7,230	
26	14,600	64,600	57,200	48,900	22,800	111,000	103,000	20,100	35,900	51,300	17,100	7,140	
27	17,200	60,300	55,700	49,700	21,900	108,000	107,000	20,800	32,000	53,300	16,000	6,970	
28	18,100	57,200	52,600	49,400	21,200	104,000	109,000	21,900	37,300	55,500	14,600	6,920	
29	17,500	54,600	49,400	47,500	-----	99,000	110,000	21,400	42,000	57,300	13,100	6,870	
30	16,300	52,100	47,600	45,800	-----	95,700	108,000	21,100	43,800	56,900	12,200	6,920	
31	15,400	-----	49,800	44,400	-----	94,400	-----	22,200	-----	53,100	11,500	-----	
TOTAL	689,300	1,686.2M	1,674.6M	1,680.7M	1,053.2M	2,299.1M	2,462.2M	1,195.1M	1,282.6M	1,003.5M	693,300	238,100	
MEAN	22,240	56,210	54,020	54,220	37,610	74,160	82,070	38,550	42,750	32,370	22,360	7,937	
MAX	35,500	75,700	67,500	86,700	54,500	115,000	110,000	104,000	56,500	57,300	47,600	10,900	
MIN	12,900	15,700	37,500	33,200	21,200	19,500	52,100	20,100	24,300	11,200	11,500	6,870	
CFSM	.78	1.96	1.89	1.89	1.31	2.59	2.87	1.35	1.49	1.13	.78	.28	
IN.	.90	2.19	2.18	2.18	1.37	2.99	3.20	1.55	1.67	1.30	.90	.31	
CAL YR 1972	TOTAL 11,471,380			MEAN 31,340		MAX 134,000		MIN 5,400		CFSM 1.09		IN 14.90	
WTR YR 1973	TOTAL 15,957,900			MEAN 43,720		MAX 115,000		MIN 6,870		CFSM 1.53		IN 20.73	

03378000 Bonpas Creek at Browns, Ill.

LOCATION.--Lat 38°23'11", long 87°58'32", in NW 1/4 SE 1/4 sec.33, T.1 S., R.14 W., Wabash County, near center of span on downstream side of bridge on State Highway 15, 0.51 mile (0.8 km) north of Browns and 0.7 mile (1.1 km) upstream from Southern Railway bridge.

DRAINAGE AREA.--228 sq mi (591 sq km).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 372.92 ft (113.67 m) above mean sea level. Prior to Dec. 11, 1968, water-stage recorder and concrete dam at site 0.4 mile (0.6 km) downstream at datum 2.0 ft (0.6 m) higher. Dec. 11, 1968, to Aug. 13, 1969, nonrecording gage at site 0.5 mile (0.8 km) downstream at datum 1.0 ft (0.3 m) lower. Auxiliary nonrecording gage near mouth on Wabash River at Grayville read twice daily.

AVERAGE DISCHARGE.--33 years, 215 cfs (6.09 cu m/s), 12.81 in/yr (325 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,800 cfs (79.3 cu m/s) Mar. 13, gage height, 18.34 ft (5.590 m); no flow Oct. 18-22.

Period of record: Maximum discharge, 7,500 cfs (212 cu m/s) May 9, 1961, gage height, 24.04 ft (7.327 m), site and datum then in use; no flow at times in most years.

REMARKS.--Records fair except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	201	69	934	365	35	814	61	78	143	2.3	.40
2	16	785	54	937	1,090	41	834	265	60	60	1.7	.30
3	9.3	756	48	820	1,040	119	757	300	313	30	1.3	.30
4	5.6	617	43	813	934	262	590	154	462	20	1.0	.30
5	3.7	204	39	726	547	622	527	93	761	25	.74	.30
6	2.6	72	108	471	197	575	324	66	840	20	.50	.20
7	1.9	203	138	107	123	447	140	60	869	17	.40	3.2
8	1.4	481	566	70	131	348	311	578	764	14	.30	8.4
9	.88	323	1,000	55	110	482	384	780	270	13	.30	10
10	.50	136	968	45	87	917	424	1,170	116	100	22	16
11	.40	78	867	40	64	2,170	287	1,380	56	200	21	24
12	.40	56	490	35	57	2,680	154	985	40	100	17	16
13	.10	636	913	32	68	2,740	100	292	35	40	518	9.0
14	.20	1,140	870	30	147	2,450	95	86	30	25	872	5.6
15	.30	1,070	799	29	328	2,040	80	58	217	15	782	3.7
16	.30	1,020	407	29	242	1,560	73	46	274	10	248	2.4
17	.20	718	200	31	139	1,600	100	37	136	7.0	40	1.7
18	0	205	80	104	92	1,500	493	31	125	5.5	17	1.2
19	0	221	86	639	60	1,440	770	28	570	4.7	11	.88
20	0	491	584	612	56	1,380	1,410	24	638	4.4	7.7	.74
21	0	322	739	508	54	1,220	1,330	22	371	6.8	5.6	.50
22	0	151	692	1,020	52	959	1,860	22	112	69	4.4	.40
23	1.9	108	497	1,010	51	537	2,490	24	48	24	3.0	.74
24	1.6	72	318	931	46	122	2,530	24	30	105	2.3	.50
25	1.2	70	314	649	43	523	2,390	22	23	55	1.9	.50
26	.88	292	272	221	41	1,080	2,090	21	23	39	1.6	.60
27	1.4	494	198	412	39	1,240	1,690	579	539	13	1.4	.74
28	2.0	321	136	590	37	1,310	1,250	623	1,100	8.4	1.6	1.6
29	1.9	149	118	629	-----	1,100	497	496	976	5.6	1.6	4.9
30	1.7	92	345	457	-----	696	58	211	559	4.0	2.3	4.5
31	2.3	-----	963	203	-----	674	-----	130	-----	3.0	1.9	-----
TOTAL	95.36	11,484	12,921	13,189	6,240	32,869	24,852	8,668	10,435	1,186.4	2,591.84	119.60
MEAN	3.08	383	417	425	223	1,060	828	280	348	38.3	83.6	3.99
MAX	23	1,140	1,000	1,020	1,090	2,740	2,530	1,380	1,100	200	872	24
MIN	0	56	39	29	37	35	58	21	23	3.0	.30	.20
CFSM	.01	1.68	1.83	1.86	.98	4.65	3.63	1.23	1.53	.17	.37	.02
IN.	.02	1.87	2.11	2.15	1.02	5.36	4.05	1.41	1.70	.19	.42	.02
CAL YR 1972	TOTAL	76,518.88	MEAN	209	MAX	3,770	MIN	0	CFSM	.92	IN	12.48
WTR YR 1973	TOTAL	124,651.20	MEAN	342	MAX	2,740	MIN	0	CFSM	1.50	IN	20.34

03378550 Big Creek near Wadesville, Ind.

LOCATION.--Lat 38°04'58", long 87°46'10", in SW 1/4 SW 1/4 sec.16, T.5 S., R.12 W., Posey County, on left bank at downstream side of bridge on U.S. Highway 460 (S.R. 66), 0.6 mile (1.0 km) northwest of Blairsville, and 1.6 miles (2.6 km) southeast of Wadesville.

DRAINAGE AREA.--104 sq mi (269 sq km).

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 370.00 ft (112.776 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 110 cfs (3.115 cu m/s), 14.36 in/yr (365 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,670 cfs (75.6 cu m/s) June 13, gage height, 18.10 ft (5.517 m); minimum daily, 0.13 cfs (0.004 cu m/s) Oct. 12-15.

Period of record: Maximum discharge, 5,370 cfs (152 cu m/s) Apr. 28, 1970, gage height, 19.18 ft (5.846 m); no flow at times most years.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	279	59	134	202	35	334	75	44	26	2.5	2.6
2	2.4	924	48	91	312	41	220	549	96	20	2.2	1.2
3	.85	172	43	456	197	70	142	163	264	18	2.0	.85
4	.48	66	40	786	156	65	164	89	96	15	1.8	.63
5	.32	41	38	161	122	122	135	61	181	12	1.7	.44
6	.19	30	121	96	94	81	105	51	777	9.5	1.7	.32
7	.17	143	67	66	79	170	102	58	123	8.0	1.6	.25
8	.17	162	1,670	54	219	107	384	1,270	58	6.8	1.5	.22
9	.19	71	1,740	44	112	78	195	247	40	6.4	1.5	.85
10	.19	54	362	39	76	100	163	716	31	19	6.8	.85
11	.15	44	146	35	60	2,160	105	364	26	32	3.2	.68
12	.13	35	165	32	56	639	92	137	345	6.2	36	.57
13	.13	1,100	954	31	63	166	70	88	1,970	5.0	324	.48
14	.13	1,120	206	30	345	320	61	63	429	275	24	.44
15	.13	188	143	28	281	400	57	49	764	527	5.4	.44
16	.19	110	90	28	121	203	57	43	407	28	2.8	.39
17	.22	80	70	33	76	1,820	158	37	416	11	2.2	.35
18	.25	60	60	112	62	430	1,940	31	138	6.8	2.0	.35
19	.29	495	241	740	56	169	1,680	29	718	22	1.6	.39
20	.19	336	615	156	55	347	2,380	25	138	14	1.1	.44
21	.19	135	232	753	53	245	554	21	69	9.0	.85	.53
22	.32	114	158	1,050	51	134	1,210	34	46	126	.74	.48
23	.48	93	122	238	51	106	950	35	34	850	.79	.48
24	.74	72	103	134	43	91	311	27	27	264	.93	.79
25	.68	86	87	103	41	714	221	22	22	38	.79	58
26	.57	175	85	104	40	1,290	171	19	19	13	.85	6.4
27	.63	157	74	200	37	301	114	1,240	858	7.6	.74	1.4
28	.85	99	66	154	35	159	79	326	335	5.3	.79	.68
29	1.2	72	65	132	-----	157	61	119	57	3.9	.79	.48
30	.85	67	113	39	-----	401	51	77	35	3.2	.57	.35
31	131	-----	474	89	-----	900	-----	53	-----	2.9	3.5	-----
TOTAL	153.08	6,580	8,457	6,148	3,095	12,021	12,266	6,118	8,563	2,390.6	436.94	82.33
MEAN	4.94	219	273	198	111	388	409	197	285	77.1	14.1	2.74
MAX	131	1,120	1,740	1,050	345	2,160	2,380	1,270	1,970	850	324	58
MIN	.13	30	38	28	35	35	51	19	19	2.9	.57	.22
CFSM	.05	2.11	2.63	1.90	1.07	3.73	3.93	1.89	2.74	.74	.14	.03
IN.	.05	2.35	3.03	2.20	1.11	4.30	4.39	2.19	3.06	.86	.16	.03

CAL YR 1972 TOTAL 50,802.89 MEAN 139 MAX 4,210 MIN 0 CFSM 1.34 IN 18.17
 WTR YR 1973 TOTAL 66,310.95 MEAN 182 MAX 2,380 MIN .13 CFSM 1.75 IN 23.72

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-08	2400	17.88	2,540	04-20	0930	17.93	2,560
03-11	1700	17.65	2,420	06-13	0600	18.10	2,670
04-18	2000	17.73	2,460				

STREAMS TRIBUTARY TO LAKE MICHIGAN

04087500 Hart ditch at Munster, Ind.

LOCATION.--Lat 41°33'40", long 87°28'50", in SE 1/4 NW 1/4 sec.20, T.36 N., R.9 W., Lake County, on left bank at city limits of Munster, 0.2 mile (0.3 km) downstream from Ridge Road, and 0.4 mile (0.6 km) upstream from mouth.

DRAINAGE AREA.--70.7 sq mi (183.1 sq km).

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 591.27 ft (180.219 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Since Sept. 11, 1959, auxiliary water-stage recorder 1,200 ft (366 m) upstream from base gage, at same datum.

AVERAGE DISCHARGE.--31 years, 57.8 cfs (1.637 cu m/s), 11.10 in/yr (282 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,500 cfs (42.5 cu m/s) Dec. 31, gage height, 6.60 ft (2.012 m); minimum daily, 4.8 cfs (0.14 cu m/s) Aug. 22, 29, Sept. 6, 20-22.

Period of record: Maximum discharge, 2,670 cfs (75.6 cu m/s) Apr. 28, 1959; maximum gage height, 7.83 ft (2.387 m) Oct. 11, 1954; minimum daily discharge, 1.6 cfs (0.045 cu m/s) Dec. 24-26, 31, 1963, Jan. 1, 2, Sept. 4-9, 14-17, 1964.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	64	64	900	79	46	597	125	155	17	8.7	5.5
2	52	141	60	450	208	60	443	177	88	18	7.8	5.5
3	42	143	58	373	244	111	250	128	72	31	7.0	5.5
4	37	95	56	443	157	117	171	84	64	40	7.0	6.2
5	33	72	56	169	122	180	141	60	111	25	7.8	5.5
6	30	60	95	114	106	163	108	50	353	18	9.6	4.8
7	27	72	81	86	90	185	81	54	247	14	8.7	5.5
8	24	90	66	64	70	163	64	56	114	12	7.8	5.5
9	22	72	54	49	56	103	122	48	66	10	8.7	5.5
10	19	68	44	40	52	90	174	40	48	12	9.6	5.5
11	71	88	38	33	44	390	122	36	38	9.6	8.7	5.5
12	95	86	88	29	40	325	208	32	32	9.6	7.0	5.5
13	64	156	269	26	37	171	267	29	25	8.7	6.2	5.5
14	48	750	233	26	35	163	146	28	24	7.8	6.2	6.2
15	40	870	146	28	42	138	98	27	22	8.7	5.5	6.2
16	36	550	93	32	32	100	143	25	39	8.7	5.5	7.0
17	30	275	68	46	33	157	163	24	95	7.8	20	22
18	30	169	58	119	34	194	111	23	62	7.8	17	6.2
19	34	132	58	208	36	163	122	32	46	7.8	7.0	5.5
20	33	183	68	117	43	119	111	29	168	8.7	6.2	4.8
21	38	199	84	93	54	88	378	25	125	9.6	5.5	4.8
22	155	155	100	199	43	68	1,050	86	60	8.7	4.8	4.8
23	267	122	95	255	46	56	950	79	43	8.7	12	5.5
24	185	95	90	138	50	50	470	52	34	22	31	5.5
25	119	93	103	108	54	72	233	115	28	9.6	12	7.0
26	86	128	103	108	49	146	143	90	25	12	7.0	5.5
27	70	137	88	114	42	95	103	133	23	9.6	6.2	5.5
28	79	98	86	117	43	72	74	437	22	8.7	5.5	5.5
29	122	74	115	84	-----	185	64	283	19	8.7	4.8	10
30	98	68	1,100	68	-----	289	77	297	18	29	10	5.5
31	72	-----	1,400	60	-----	320	-----	306	-----	12	7.0	-----
TOTAL	2,126	5,305	5,117	4,696	1,941	4,579	7,184	3,010	2,266	420.8	277.8	189.0
MEAN	68.6	177	165	151	69.3	148	239	97.1	75.5	13.6	8.96	6.30
MAX	267	870	1,400	900	244	390	1,050	437	353	40	31	22
MIN	19	60	38	26	32	46	64	23	18	7.8	4.8	4.8
CFSM	.97	2.50	2.33	2.14	.98	2.09	3.38	1.37	1.07	.19	.13	.09
IN.	1.12	2.79	2.69	2.47	1.02	2.41	3.78	1.58	1.19	.22	.15	.10

CAL YR 1972 TOTAL 29,821.1 MEAN 81.5 MAX 1,400 MIN 4.8 CFSM 1.15 IN 15.69
WTR YR 1973 TOTAL 37,111.6 MEAN 102 MAX 1,400 MIN 4.8 CFSM 1.44 IN 19.53

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0500	3.95	922	04-22	2400	5.37	1,150
12-31	1130	6.60	1,500				

04087600 Little Calumet River at Munster, Ind.

LOCATION.—Lat 41°34'07", long 87°31'18", in SE 1/4 NW 1/4 sec.13, T.36 N., R.10 W., Lake County, on left bank 200 ft (61 m) upstream from Hohman Street bridge at north city limits of Munster, 0.4 mile (0.6 km) upstream from Indiana-Illinois State line, and 4.6 miles (7.4 km) upstream from mouth of Thorn Creek.

DRAINAGE AREA.—90.0 sq mi (233 sq km). During times of floods on Deep River, flow may enter basin from eastern portion of Little Calumet River basin; or during times of floods on Hart ditch, flow may leave the basin and enter eastern portion of the Little Calumet River basin.

PERIOD OF RECORD.—June 1958 to current year.

GAGE.—Water-stage recorder. Datum of gage is 580.72 ft (177.003 m) above mean sea level.

AVERAGE DISCHARGE.—15 years, 66.2 cfs (1.875 cu m/s), 9.99 in/yr (254 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,000 cfs (28.3 cu m/s) Dec. 31, gage height, 14.35 ft (4.374 m); minimum daily, 7.7 cfs (0.22 cu m/s) Sept. 13.

Period of record: Maximum discharge, 1,510 cfs (42.8 cu m/s) Apr. 28, 1959, gage height, 13.67 ft (4.167 m); maximum gage height, 14.43 ft (4.398 m) Dec. 25, 1965; minimum daily discharge, 1.9 cfs (0.054 cu m/s) Aug. 20, 1964.

REMARKS.—Records good. Flow from eastern portion of Little Calumet River basin is diverted to Lake Michigan by Burns ditch.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	100	103	796	102	60	496	230	217	24	14	11
2	82	168	97	597	183	74	462	250	150	24	13	10
3	65	181	90	474	233	117	348	213	121	41	13	9.0
4	54	140	85	486	187	131	270	160	109	61	12	9.2
5	49	110	80	355	152	169	225	127	186	41	12	9.0
6	42	93	117	170	136	184	183	104	305	30	13	8.5
7	37	115	110	135	115	186	147	97	278	24	13	8.3
8	33	126	103	95	100	194	122	101	176	21	12	8.1
9	29	116	79	75	81	140	143	85	116	18	13	7.9
10	26	108	68	60	70	120	202	71	78	20	13	7.9
11	97	121	76	50	65	319	169	60	61	17	11	8.1
12	102	121	114	45	58	360	205	52	50	15	10	7.9
13	78	173	234	41	52	247	271	49	41	14	9.9	7.7
14	59	550	246	40	51	223	211	47	35	13	10	9.0
15	47	668	193	42	48	202	152	45	31	13	9.7	9.2
16	43	546	155	50	46	154	170	43	57	12	8.8	9.2
17	37	393	134	66	47	195	209	41	149	12	18	29
18	36	291	107	131	48	228	163	39	102	12	38	14
19	43	240	93	207	50	206	165	47	74	11	12	9.2
20	44	266	95	166	58	167	152	58	177	11	11	8.5
21	51	260	112	132	73	134	280	37	161	11	10	8.1
22	160	227	126	197	66	106	658	102	90	11	9.7	8.1
23	262	192	123	248	66	88	719	145	68	11	18	8.8
24	225	162	116	202	70	78	544	86	63	33	62	8.1
25	165	154	120	158	74	100	393	168	49	15	24	11
26	163	174	128	145	68	161	289	137	43	15	18	9.4
27	112	183	119	144	60	131	228	149	37	14	14	8.8
28	118	151	113	146	56	99	184	373	33	12	12	8.8
29	150	125	151	126	-----	189	152	307	28	11	11	16
30	134	111	605	101	-----	300	136	280	26	55	16	9.9
31	109	-----	970	95	-----	302	-----	298	-----	20	14	-----
TOTAL	2,767	6,365	5,062	5,775	2,415	5,364	8,048	4,001	3,111	642	475.1	297.7
MEAN	89.3	212	163	186	86.3	173	268	129	104	20.7	15.3	9.92
MAX	262	668	970	796	233	360	719	373	305	61	62	29
MIN	26	93	68	40	46	60	122	37	26	11	8.8	7.7
CFSM	.99	2.36	1.81	2.07	.96	1.92	2.98	1.43	1.16	.23	.17	.11
IN.	1.14	2.63	2.09	2.39	1.00	2.22	3.33	1.65	1.29	.27	.20	.12
CAL YR 1972	TOTAL	35,546.0	MEAN	97.1	MAX	970	MIN	8.3	CFSM	1.08	IN	14.69
WTR YR 1973	TOTAL	44,322.8	MEAN	121	MAX	970	MIN	7.7	CFSM	1.34	IN	18.32

STREAMS TRIBUTARY TO LAKE MICHIGAN

04090500 Thorn Creek at Thornton, Ill.

LOCATION.—Lat 41°34'05", long 87°36'30", near center of N 1/2 sec.34, T.36 N., R.14 E., Cook County, on right bank at downstream side of bridge on Margaret Street in Thornton, 1 mile (1.6 km) downstream from North Creek, and at mile 4.25 (6.84 km).

DRAINAGE AREA.—104 sq mi (269 sq km).

PERIOD OF RECORD.—May 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 586.43 ft (178.744 m) above mean sea level. Prior to Dec. 18, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—25 years, 95.6 cfs (2.707 cu m/s), 12.49 in/yr (317 mm/yr).

EXTREMES.—Current year: Maximum discharge, 3,060 cfs (86.7 cu m/s) Dec. 31, gage height, 14.36 ft (4.377 m); minimum daily, 24 cfs (0.68 cu m/s) Aug. 12, Sept. 13.

Period of record: Maximum discharge, 4,700 cfs (133 cu m/s) July 13, 1957, gage height, 16.00 ft (4.877 m); minimum daily, 4.4 cfs (0.12 cu m/s) Sept. 11, 1949.

Flood of Apr. 5, 1947, reached a stage of 14.34 ft (4.371 m), from floodmark, discharge, 4,200 cfs (119 cu m/s).

REMARKS.—Records good. Some diurnal fluctuation caused by pumping operations above station. Figures of discharge include about 16 cfs (0.45 cu m/s) pumped from ground-water sources for municipal supply and an undetermined amount of ground-water pumpage for industrial use.

REVISIONS.—WSP 1707: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	104	109	1,120	114	65	1,090	401	196	36	37	37
2	84	306	101	468	292	75	725	504	132	41	33	33
3	72	254	97	398	294	142	385	289	125	114	32	30
4	65	170	93	660	189	143	275	163	112	170	31	35
5	61	125	87	270	153	245	223	124	261	100	29	33
6	57	108	105	180	138	207	173	104	704	66	29	29
7	53	140	102	146	126	264	144	100	366	53	31	28
8	48	162	91	128	110	205	122	100	173	47	33	28
9	44	130	77	115	96	139	192	91	116	45	34	25
10	44	123	69	101	86	125	267	90	91	45	50	29
11	163	142	63	95	75	763	174	80	80	42	28	28
12	145	123	115	85	71	626	320	74	73	41	24	25
13	100	226	320	75	72	278	420	68	66	39	25	24
14	78	1,190	270	68	76	350	223	64	58	38	30	27
15	65	1,380	210	61	78	251	154	62	55	34	30	26
16	66	615	158	70	67	164	241	61	61	35	29	27
17	59	327	150	100	65	245	251	56	193	37	31	88
18	60	226	116	150	61	284	169	55	103	34	30	51
19	63	177	90	360	61	216	153	84	78	37	32	37
20	62	266	98	178	74	166	141	63	172	36	33	32
21	75	315	128	128	83	138	638	57	109	39	32	34
22	278	240	123	294	73	120	1,410	111	77	37	32	37
23	489	189	114	391	70	109	1,100	177	67	37	38	34
24	292	156	108	202	67	101	425	102	64	89	220	34
25	171	158	109	140	66	164	238	296	57	39	71	77
26	128	202	116	140	65	227	165	209	56	39	40	50
27	109	206	115	154	61	156	134	393	56	38	37	44
28	128	154	111	158	62	128	114	808	54	32	39	41
29	182	125	182	125	-----	471	100	435	49	29	37	93
30	144	114	1,770	107	-----	600	106	463	43	95	35	44
31	118	-----	2,590	96	-----	525	-----	393	-----	53	38	-----
TOTAL	3,619	8,153	7,987	6,763	2,845	7,692	10,272	6,077	3,847	1,617	1,250	1,160
MEAN	117	272	258	218	102	248	342	196	128	52.2	40.3	38.7
MAX	489	1,380	2,590	1,120	294	763	1,410	808	704	170	220	93
MIN	44	104	63	61	61	65	100	55	43	29	24	24
CFSM	1.13	2.62	2.48	2.10	.98	2.38	3.29	1.88	1.23	.50	.39	.37
IN.	1.29	2.92	2.86	2.42	1.02	2.75	3.67	2.17	1.38	.58	.45	.41
CAL YR 1972	TOTAL 51,228	MEAN 140	MAX 2,590	MIN 31	CFSM 1.35	IN 18.32						
WTR YR 1973	TOTAL 61,282	MEAN 168	MAX 2,590	MIN 24	CFSM 1.62	IN 21.92						

04091000 Little Calumet River at South Holland, Ill.

LOCATION.--Lat 41°36'05", long 87°34'38", in SW 1/4 SW 1/4 sec.13, T.36 N., R.14 E., Cook County, on right bank at downstream side of bridge on U.S. Highway 6, 0.6 mile (1.0 km) downstream from Thorn Creek, 1.6 miles (2.6 km) east of South Holland, and at mile 21.66 (34.85 km).

DRAINAGE AREA.--205 sq mi (531 sq km).

PERIOD OF RECORD.--October 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft (175.260 m) above mean sea level (Illinois Department of Transportation bench mark). Prior to Oct. 27, 1947, nonrecording gage at same site and datum. Nov. 17, 1947 to Nov. 19, 1970, auxiliary water-stage recorder at Dixmoor, 6.1 miles (9.8 km) downstream; prior to Nov. 17, 1947, nonrecording gage at same site read twice daily.

AVERAGE DISCHARGE.--26 years, 170 cfs (4.814 cu m/s).

EXTREMES.--Current year: Maximum discharge, 3,500 cfs (99.1 cu m/s) Dec. 31, gage height, 18.76 ft (5.718 m); minimum daily, 31 cfs (0.88 cu m/s) Sept. 9, 10, 13.

Period of record: Maximum discharge, 4,440 cfs (126 cu m/s) July 14, 1957, gage height, 20.11 ft (6.130 m); minimum daily, 7.9 cfs (0.22 cu m/s) Oct. 6, 1950.

Flood of Apr. 6, 1957, reached a stage of 19.24 ft (5.864 m), from floodmarks, discharge, 4,760 cfs (135 cu m/s).

REMARKS.--Records good. Flow from upper Little Calumet River basin is diverted to Lake Michigan by Burns ditch. Calumet Sag Channel, 8 miles (12.9 km) below station, diverts the entire flow to the Mississippi River basin.

REVISIONS (WATER YEARS).--WSP 1507: 1950, 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353	221	249	2,450	224	131	1,610	763	541	51	55	47
2	224	423	230	1,270	409	147	1,380	847	361	50	47	42
3	171	455	214	965	601	268	890	634	302	125	45	38
4	140	411	199	1,230	484	322	678	398	261	273	44	40
5	128	292	187	762	372	540	548	289	439	187	43	46
6	112	229	244	525	328	470	434	229	969	98	44	36
7	101	267	230	405	290	580	349	199	800	70	48	34
8	91	328	206	317	261	460	280	220	452	57	49	33
9	79	283	172	252	198	348	339	201	288	52	45	31
10	76	244	153	220	183	283	525	168	204	65	99	31
11	285	286	141	185	149	982	417	147	155	61	48	35
12	334	273	262	165	130	1,140	491	125	127	57	36	32
13	241	393	724	150	131	657	595	113	106	55	32	31
14	165	1,710	633	132	131	642	525	105	89	53	35	32
15	128	2,100	462	120	141	554	361	102	78	49	43	33
16	120	1,340	344	131	118	385	405	97	92	45	37	36
17	104	848	333	205	123	485	529	94	485	50	36	102
18	99	627	260	328	117	570	390	89	260	51	65	93
19	110	525	200	600	112	465	353	117	200	50	42	45
20	112	656	214	405	133	389	322	109	424	53	39	37
21	128	684	248	301	167	317	876	91	342	56	36	38
22	446	576	273	503	156	255	2,090	226	205	52	33	42
23	815	470	262	743	146	214	2,090	441	149	49	42	41
24	651	381	241	537	142	187	1,190	244	141	204	311	38
25	441	358	244	385	145	331	786	523	104	72	124	89
26	321	444	264	342	143	446	574	454	94	52	64	57
27	257	461	258	353	134	412	440	554	86	60	51	52
28	268	381	246	367	128	285	344	1,250	79	47	52	48
29	379	299	318	316	-----	665	275	892	68	42	50	134
30	344	262	2,050	249	-----	1,020	259	792	58	176	52	62
31	269	-----	3,390	219	-----	924	-----	811	-----	116	55	-----
TOTAL	7,492	16,227	13,451	15,132	5,796	14,874	20,345	11,324	7,959	2,478	1,802	1,455
MEAN	242	541	434	488	207	480	678	365	265	79.9	58.1	48.5
MAX	815	2,100	3,390	2,450	601	1,140	2,090	1,250	969	273	311	134
MIN	76	221	141	120	112	131	259	89	58	42	32	31
AC-FT	14,860	32,190	26,680	30,010	11,500	29,500	40,350	22,460	15,790	4,920	3,570	2,890
CAL YR 1972	TOTAL 101,710		MEAN 278	MAX 3,390	MIN 50	AC-FT 201,700						
WTR YR 1973	TOTAL 118,335		MEAN 324	MAX 3,390	MIN 31	AC-FT 234,700						

04093000 Deep River at Lake George Outlet at Hobart, Ind.

LOCATION.—Lat 41°32'10", long 87°15'25", in NW 1/4 NW 1/4 sec.32, T.36 N., R.7 W., Lake County, on left bank at upstream side of highway bridge, 300 ft (91 m) upstream from Duck Creek, and 400 ft (122 m) downstream from Lake George Dam.

DRAINAGE AREA.—124 sq mi (321 sq km).

PERIOD OF RECORD.—April 1947 to current year.

GAGE.—Water-stage recorder. Datum of gage is 588.17 ft (179.274 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 29, 1952, nonrecording gage, and July 30, 1952, to July 20, 1955, water-stage recorder at site 400 ft (122 m) upstream at datum 11.80 ft (3.597 m) higher.

AVERAGE DISCHARGE.—26 years, 100 cfs (2.832 cu m/s), 10.95 in/yr (278 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,840 cfs (52.1 cu m/s) Dec. 31, gage height, 12.48 ft (3.804 m); minimum daily, 12 cfs (0.34 cu m/s) Sept. 6, 7.

Period of record: Maximum discharge, 3,880 cfs (110 cu m/s) Oct. 11, 1954, gage height, 19.48 ft (5.938 m) present datum, site then in use; minimum daily, 4.2 cfs (0.12 cu m/s) Sept. 14, 1948.

REMARKS.—Records good. Flow occasionally regulated by Lake George Dam.

REVISIONS (WATER YEARS).—WSP 1337: 1953. WSP 1507: 1956. WRD Ind. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	127	144	1,270	158	98	876	188	292	49	30	24
2	141	150	134	858	363	110	845	202	206	45	26	20
3	105	191	125	721	519	146	668	214	156	42	22	17
4	84	183	120	749	463	184	518	190	137	49	20	15
5	70	153	119	628	344	218	420	159	148	52	19	13
6	60	129	186	482	266	273	330	135	597	46	18	12
7	54	134	225	376	219	283	258	120	755	39	16	12
8	48	222	194	279	189	278	211	86	546	33	17	13
9	43	239	154	204	146	237	199	79	335	30	17	14
10	39	199	125	144	126	193	252	88	219	26	18	15
11	60	213	91	124	113	249	260	81	159	24	18	13
12	106	217	117	108	97	346	252	73	113	26	20	13
13	117	213	213	90	92	316	320	69	97	22	19	13
14	94	756	313	80	87	262	337	65	83	17	17	13
15	76	1,240	308	78	88	241	276	62	73	18	17	13
16	68	982	239	76	81	202	238	57	93	18	16	14
17	55	738	162	86	71	221	260	54	292	17	15	23
18	54	564	136	134	76	282	254	52	286	17	17	24
19	53	454	125	344	74	343	229	55	189	16	20	25
20	52	411	125	400	84	330	218	56	316	16	19	18
21	54	403	143	287	100	276	270	53	432	17	16	18
22	92	372	169	262	109	221	1,030	58	279	17	15	19
23	269	316	175	408	104	178	1,400	85	178	18	15	13
24	372	224	166	423	104	150	974	86	142	22	32	14
25	335	174	167	312	114	141	716	89	112	24	42	17
26	248	213	174	236	114	179	544	89	93	39	34	17
27	181	240	171	215	104	205	421	99	78	44	23	16
28	155	221	160	215	97	179	317	225	69	36	18	17
29	179	181	168	212	-----	246	236	320	62	27	16	19
30	177	156	793	175	-----	489	195	353	54	30	16	17
31	146	-----	1,720	153	-----	578	-----	351	-----	31	21	-----
TOTAL	3,799	10,015	7,361	10,129	4,502	7,654	13,324	3,893	6,591	907	629	491
MEAN	123	334	237	327	161	247	444	126	220	29.3	20.3	16.4
MAX	372	1,240	1,720	1,270	519	578	1,400	353	755	52	42	25
MIN	39	127	91	76	71	98	195	52	54	16	15	12
CFSM	.99	2.69	1.91	2.64	1.30	1.99	3.58	1.02	1.77	.24	.16	.13
IN.	1.14	3.00	2.21	3.04	1.35	2.30	4.00	1.17	1.98	.27	.19	.15

CAL YR 1972 TOTAL 54,198 MEAN 148 MAX 1,720 MIN 15 CFSM 1.19 IN 16.26
WTR YR 1973 TOTAL 69,295 MEAN 190 MAX 1,720 MIN 12 CFSM 1.53 IN 20.79

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0800	10.72	1,300	04-23	0200	11.52	1,540
12-31	1000	12.48	1,840	06-06	2100	8.88	826
04-01	1600	9.30	918				

04093500 Burns ditch at Gary, Ind.

LOCATION.—Lat 41°34'30", long 87°17'20", in SE 1/4 NW 1/4 sec.13, T.36 N., R.8 W., Lake County, on left bank at downstream side of bridge on Central Avenue, 0.4 mile (0.6 km) east of Gary, and 0.4 mile (0.6 km) downstream from confluence of Deep River and Little Calumet River.

DRAINAGE AREA.—160 sq mi (414 sq km). During times of floods flow may leave the basin by flowing west through Little Calumet River into the western portion of Calumet River basin; or during times of floods on Hart ditch, flow may enter the basin from western portion of the Little Calumet River basin.

PERIOD OF RECORD.—October 1943 to current year (October 1950 to September 1955, high-water records only).

GAGE.—Water-stage recorder. Datum of gage is 577.04 ft (175.882 m) above mean sea level. Prior to July 28, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—25 years (1943-50, 1955 to current year), 139 cfs (3.936 cu m/s), 11.80 in/yr (300 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,770 cfs (50.1 cu m/s) Jan. 1, gage height, 12.41 ft (3.783 m); minimum daily, 16 cfs (0.45 cu m/s) Sept. 6, 7, 13, 14.
Period of record: Maximum discharge, 3,430 cfs (97.1 cu m/s) Oct. 11, 1954; maximum gage height, 16.44 ft (5.011 m) Mar. 16, 1944, from graph based on gage readings; minimum daily discharge, 2.6 cfs (0.074 cu m/s) Oct. 14, 1946.

REMARKS.—Records poor. Burns ditch is an artificial channel which reverses the direction of flow of part of Little Calumet River and flows into Lake Michigan at Wickliffe.

REVISIONS (WATER YEARS).—WSP 1034: 1944. WSP 1337: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	170	190	1,710	210	125	960	240	370	62	39	30
2	200	200	170	1,100	500	140	1,080	260	270	56	33	27
3	150	240	165	940	650	170	800	270	200	55	29	22
4	110	240	155	960	580	220	660	240	180	64	26	19
5	90	200	150	800	450	270	540	210	190	66	24	17
6	80	170	240	600	350	310	420	180	630	60	23	16
7	70	180	290	500	290	320	350	150	900	52	21	16
8	63	280	250	350	250	310	270	110	600	42	22	17
9	56	300	200	260	200	290	260	100	420	38	22	18
10	51	260	160	190	160	250	320	110	280	33	23	19
11	80	270	120	160	145	300	330	105	200	31	23	17
12	140	280	150	140	130	460	320	96	150	33	25	17
13	150	280	250	120	120	400	400	90	125	29	24	16
14	120	800	400	110	110	350	430	84	110	22	22	16
15	100	1,310	390	100	110	300	350	80	92	23	22	17
16	90	1,290	300	98	100	260	300	73	120	23	21	18
17	70	1,000	200	110	92	270	330	69	370	22	20	30
18	68	720	170	150	94	350	330	66	360	22	22	31
19	68	600	160	450	94	430	300	70	180	20	25	32
20	68	520	160	500	105	420	280	71	450	20	24	23
21	70	510	180	410	125	350	350	68	580	22	21	23
22	120	480	220	400	140	300	950	74	350	22	19	24
23	350	400	220	520	135	230	1,600	110	220	23	19	17
24	480	300	210	540	130	200	1,500	110	180	28	42	18
25	440	230	210	420	145	180	1,000	115	140	31	54	22
26	320	270	220	300	145	220	780	115	120	51	40	22
27	250	300	215	280	130	260	560	125	100	56	30	21
28	200	280	215	275	125	230	430	280	90	45	24	22
29	230	230	220	270	-----	300	320	400	80	35	21	24
30	230	200	800	230	-----	550	250	450	70	39	21	22
31	190	-----	1,620	210	-----	670	-----	450	-----	39	27	-----
TOTAL	5,004	12,510	8,600	13,203	5,815	9,435	16,770	4,971	8,127	1,164	808	633
MEAN	161	417	277	426	208	304	559	160	271	37.5	26.1	21.1
MAX	480	1,310	1,620	1,710	650	670	1,600	450	900	66	54	32
MIN	51	170	120	98	92	125	250	66	70	20	19	16
CFSM	1.01	2.61	1.73	2.66	1.30	1.90	3.49	1.00	1.69	.23	.16	.13
IN.	1.16	2.91	2.00	3.07	1.35	2.19	3.90	1.16	1.89	.27	.19	.15
CAL YR 1972	TOTAL 67,938	MEAN 186	MAX 1,620	MIN 19	CFSM 1.16	IN 15.80						
WTR YR 1973	TOTAL 87,040	MEAN 238	MAX 1,710	MIN 16	CFSM 1.49	IN 20.24						

04094000 Little Calumet River at Porter, Ind.

LOCATION.--Lat 41°37'18", long 87°05'13", in NE 1/4 NE 1/4 sec.34, T.37 N., R.6 W., Porter County, on right bank at downstream end of county road bridge, 200 ft (61 m) upstream from bridge on U.S. Highway 20, 0.8 mile (1.3 km) northwest of Porter, and 4.5 miles (7.2 km) upstream from Salt Creek.

DRAINAGE AREA.--66.2 sq mi (171.5 sq km).

PERIOD OF RECORD.--May 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 603.48 ft (183.941 m) above mean sea level. Prior to June 26, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 71.1 cfs (2.014 cu m/s), 14.59 in/yr (371 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,400 cfs (39.6 cu m/s) Apr. 22, gage height, 8.91 ft (2.716 m); minimum daily, 28 cfs (0.79 cu m/s) Sept. 14, 15.

Period of record: Maximum discharge, 3,110 cfs (88.1 cu m/s) Oct. 10, 1954, gage height, 11.66 ft (3.554 m); minimum daily, 17 cfs (0.48 cu m/s) Aug. 24, 1965.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1084: 1945. WSP 1337: 1946-47. WRD Ind. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	90	91	515	101	83	442	124	184	83	49	31
2	118	107	89	304	234	101	437	154	108	66	43	31
3	82	139	87	184	276	119	258	141	111	60	41	30
4	68	144	82	312	180	127	173	101	120	72	37	30
5	62	169	78	312	127	134	135	82	120	71	34	30
6	58	128	181	180	106	183	112	75	362	59	34	30
7	55	122	358	120	95	137	95	74	518	54	32	29
8	52	274	211	93	90	121	87	79	284	50	32	29
9	47	314	150	70	78	96	89	76	155	48	34	29
10	45	190	100	58	73	87	141	67	100	46	33	29
11	69	180	70	52	69	120	123	61	76	45	32	29
12	101	166	90	50	64	187	113	59	63	42	32	29
13	79	142	258	51	62	116	124	59	58	41	31	29
14	67	411	421	52	64	102	96	58	54	40	32	28
15	60	644	227	54	68	100	80	57	51	40	33	28
16	59	431	120	60	68	86	83	55	127	39	32	29
17	57	278	95	70	66	117	116	53	466	38	31	35
18	55	193	85	122	64	159	95	51	504	37	31	40
19	67	153	83	308	66	170	92	56	201	42	32	36
20	70	159	95	300	76	144	89	57	173	39	34	32
21	70	204	112	160	81	115	157	52	188	39	31	31
22	113	181	127	148	76	95	784	55	101	39	31	32
23	282	154	126	242	72	84	950	76	79	39	31	31
24	325	127	119	200	73	78	429	67	82	40	42	31
25	198	112	126	134	83	78	260	67	72	39	38	33
26	124	132	129	127	81	110	167	65	63	51	34	38
27	99	159	116	120	73	99	122	72	59	53	33	35
28	93	132	107	112	75	83	97	232	107	41	31	34
29	135	105	123	103	-----	139	85	340	238	39	31	43
30	145	95	452	92	-----	304	97	272	132	46	32	49
31	106	-----	1,020	84	-----	247	-----	327	-----	60	33	-----
TOTAL	3,200	5,835	5,528	4,789	2,641	3,921	6,128	3,164	4,956	1,498	1,056	970
MEAN	103	185	178	154	84.3	126	204	102	165	48.3	34.1	32.3
MAX	325	644	1,020	515	276	304	950	40	518	83	49	49
MIN	45	40	70	50	62	78	80	31	51	37	31	28
CFSM	1.56	2.45	2.69	2.33	1.42	1.90	3.08	1.54	2.49	.73	.52	.49
IN.	1.80	3.28	3.11	2.64	1.48	2.20	3.44	1.78	2.78	.84	.59	.55
CAL YR 1972	TOTAL 34,653	MEAN 94.7	MAX 1,020	MIN 24	CFSM 1.43	IN 19.47						
WTR YR 1973	TOTAL 43,686	MEAN 120	MAX 1,020	MIN 28	CFSM 1.81	IN 24.55						

PEAK DISCHARGE (BASE, 700 CFS).--Dec. 31 (0500) 1,170 cfs (8.48 ft); Apr. 22 (2400) 1,400 cfs (8.91 ft).

04094500 Salt Creek near McCool, Ind.

LOCATION.--Lat 41°35'48", long 87°08'40", in SE 1/4 SE 1/4 sec.6, T.36 N., R.6 W., Porter County, on left bank on downstream side of highway bridge, 50 ft (15 m) downstream from New York Central Railroad bridge, 1.2 miles (1.9 km) north of McCool, and 1.5 miles (2.4 km) upstream from Little Calumet River.

DRAINAGE AREA.--74.6 sq mi (193.2 sq km).

PERIOD OF RECORD.--May 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 594.10 ft (181.082 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 25, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 71.0 cfs (2.011 cu m/s), 12.92 in/yr (328 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,490 cfs (42.2 cu m/s) Apr. 22, gage height, 9.87 ft (3.008 m); minimum daily, 26 cfs (0.74 cu m/s) Sept. 14-16.

Period of record: Maximum discharge, 3,180 cfs (90.1 cu m/s) Oct. 11, 1954, gage height, 14.12 ft (4.304 m); minimum daily, 14 cfs (0.40 cu m/s) Sept. 8, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1337: 1946-48(M), 1950(M). WSP 1911: 1958. WRD Ind. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	89	91	554	121	80	413	98	208	52	56	34
2	121	120	90	318	259	92	435	115	119	48	42	30
3	88	143	88	199	300	121	277	117	125	51	37	29
4	73	143	84	275	240	127	183	100	122	64	34	28
5	66	136	81	255	155	151	149	88	131	61	32	28
6	61	104	201	171	123	177	122	79	386	52	31	28
7	58	120	233	115	109	145	106	72	502	50	31	28
8	54	256	156	89	101	127	97	78	321	48	31	27
9	49	226	108	65	86	105	97	73	166	46	32	27
10	47	153	94	57	77	94	139	68	112	46	31	28
11	82	186	75	54	71	147	120	63	87	46	31	28
12	125	157	93	53	66	189	122	59	71	43	32	27
13	94	142	213	53	64	132	151	62	63	42	29	27
14	77	421	265	54	67	120	121	58	57	41	30	26
15	65	710	223	57	73	115	101	57	52	40	33	26
16	62	465	125	60	69	97	101	54	59	39	31	26
17	58	295	100	77	67	136	137	52	283	39	30	30
18	55	192	97	119	67	179	112	51	515	39	30	39
19	63	151	91	253	66	192	105	57	348	37	47	33
20	62	161	101	243	81	163	100	59	244	39	46	29
21	62	186	122	137	87	137	137	53	269	40	33	29
22	130	167	135	173	79	113	672	60	144	40	30	29
23	277	148	129	246	73	98	981	130	104	40	30	28
24	295	122	121	186	76	90	458	98	96	42	46	28
25	229	112	130	125	88	91	286	86	88	41	46	31
26	141	138	131	116	84	130	171	83	75	51	36	33
27	110	161	120	117	74	108	130	91	66	48	32	30
28	101	125	113	121	73	91	107	274	70	42	31	30
29	155	104	126	111	-----	195	93	345	65	39	30	31
30	122	94	430	96	-----	288	91	312	56	49	33	36
31	98	-----	1,110	90	-----	251	-----	301	-----	56	41	-----
TOTAL	3,312	5,727	5,276	4,639	2,896	4,281	6,314	3,293	5,004	1,411	1,084	883
MEAN	107	191	170	150	103	138	210	106	167	45.5	35.0	29.4
MAX	295	710	1,110	554	300	288	981	345	515	64	56	39
MIN	47	89	75	53	64	80	91	51	52	37	29	26
CFSM	1.43	2.56	2.28	2.01	1.38	1.85	2.82	1.42	2.24	.61	.47	.39
IN.	1.65	2.86	2.63	2.31	1.44	2.13	3.15	1.64	2.50	.70	.54	.44

CAL YR 1972 TOTAL 35,491 MEAN 97.0 MAX 1.110 MIN 24 CFSM 1.30 IN 17.70
WTR YR 1973 TOTAL 44,120 MEAN 121 MAX 1.110 MIN 26 CFSM 1.62 IN 22.00

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0900	7.62	764	04-22	2400	9.87	1,490
12-31	0700	9.45	1,320				

STREAMS TRIBUTARY TO LAKE MICHIGAN

04095300 Trail Creek at Michigan City, Ind.

LOCATION.--Lat 41°43'00", long 86°51'35", in SW 1/4 NE 1/4 sec.27, T.38 N., R.4 W., LaPorte County, on left downstream wingwall of bridge on Springland Avenue in Michigan City, 1.0 mile (1.6 km) upstream from Otter Creek, and 4.2 miles (6.8 km) upstream from mouth.

DRAINAGE AREA.--54.1 sq mi (140.1 sq km).

PERIOD OF RECORD.--June 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 584.02 ft (178.009 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,110 cfs (31.4 cu m/s) Apr. 22, gage height, 10.66 ft (3.249 m); minimum daily, 26 cfs (0.74 cu m/s) Sept. 14, 15.

Period of record: Maximum discharge, 1,110 cfs (31.4 cu m/s) Apr. 22, 1973, gage height, 10.66 ft (3.249 m); minimum daily, 21 cfs (0.59 cu m/s) July 20, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	75	82	267	97	81	477	124	95	60	41	30
2	70	114	82	151	197	89	255	140	77	55	39	28
3	58	113	82	135	164	103	157	102	101	57	37	29
4	51	109	80	291	111	96	119	86	93	73	35	32
5	54	101	74	151	97	110	102	77	116	61	33	29
6	51	86	261	90	89	114	89	75	446	49	32	29
7	49	101	150	80	86	102	80	75	231	46	32	27
8	47	244	100	78	86	91	75	77	119	44	31	28
9	46	186	85	79	70	81	99	73	86	44	31	29
10	44	119	72	70	60	81	143	68	74	44	32	29
11	93	132	60	60	62	145	100	65	68	41	35	28
12	118	107	75	64	65	115	108	64	64	39	35	27
13	91	98	251	67	70	85	101	63	62	38	31	27
14	65	315	150	70	75	89	83	64	59	37	32	26
15	59	367	120	72	81	89	76	63	58	37	31	26
16	61	198	100	77	76	77	96	61	81	35	30	27
17	54	138	60	91	70	126	102	58	172	34	29	39
18	55	110	70	141	72	133	85	58	89	34	29	46
19	69	98	82	273	75	141	85	63	71	34	31	34
20	69	118	91	153	84	117	84	58	96	35	33	32
21	70	142	111	110	89	98	171	58	70	37	29	34
22	177	126	126	147	79	84	788	64	61	37	29	38
23	292	124	121	183	75	77	438	72	61	37	32	32
24	182	105	111	124	77	72	191	64	73	51	49	32
25	107	101	117	104	81	77	129	69	61	42	37	34
26	84	135	114	100	77	105	98	63	57	60	34	40
27	74	159	101	98	72	84	86	96	72	53	32	35
28	79	118	95	94	73	75	79	251	277	42	31	35
29	138	94	116	88	-----	160	77	186	105	38	29	65
30	105	84	514	81	-----	238	86	200	69	43	33	55
31	84	-----	734	75	-----	168	-----	149	-----	48	32	-----
TOTAL	2,696	4,117	4,387	3,664	2,410	3,303	4,659	2,786	3,164	1,385	1,026	1,002
MEAN	87.0	137	142	118	86.1	107	155	89.9	105	44.7	33.1	33.4
MAX	292	367	734	291	197	238	788	251	446	73	49	65
MIN	44	75	60	60	60	72	75	58	57	34	29	26
CFSM	1.61	2.53	2.62	2.18	1.59	1.98	2.87	1.66	1.94	.83	.61	.62
IN.	1.85	2.83	3.02	2.52	1.66	2.27	3.20	1.92	2.18	.95	.71	.69

CAL YR 1972 TOTAL 29,438 MEAN 80.4 MAY 734 MIN 25 CFSM 1.49 IN 20.24
WTR YR 1973 TOTAL 34,599 MEAN 94.8 MAX 788 MIN 26 CFSM 1.75 IN 23.79

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	1100	5.31	312	01-04	0800	5.43	327	04-22	1700	10.66	1,110
11-08	1100	4.80	251	01-19	0500	5.25	305	05-28	0500	4.95	269
11-15	0300	6.24	426	02-02	1300	4.44	211	06-06	1200	7.08	536
12-06	1500	5.77	367	03-30	0600	5.03	279	06-17	0700	4.43	210
12-13	1300	5.04	280	04-01	1600	7.61	610	06-28	0800	5.47	331
12-31	0300	9.65	913								

04096100 Galena River near LaPorte, Ind.

LOCATION.--Lat 41°44'54", long 86°40'30", in SE 1/4 NW 1/4 sec.17, T.38 N., R.2 W., LaPorte County, on left bank at downstream side of bridge on County Road 125 East, 1.3 miles (2.1 km) upstream from Indiana-Michigan State line, and 9.8 miles (15.8 km) north of Court House in LaPorte.

DRAINAGE AREA.--17.2 sq mi (44.5 sq km).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 625.00 ft (190.500 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 172 cfs (4.87 cu m/s) Apr. 22, gage height, 6.47 ft (1.972 m); minimum daily, 6.7 cfs (0.19 cu m/s) Sept. 13.

Period of record: Maximum discharge, about 200 cfs (5.66 cu m/s) Feb. 5, 1971 (gage height, unknown); minimum daily, 6.7 cfs (0.19 cu m/s) Sept. 13, 1973.

REMARKS.--Records good.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	31	32	70	32	25	128	41	49	23	18	10
2	27	44	31	48	53	28	71	37	41	22	13	10
3	24	40	33	45	47	32	49	31	45	24	13	10
4	24	40	31	83	37	30	39	26	44	28	12	11
5	22	36	31	48	37	44	36	23	57	25	11	10
6	21	32	44	28	33	43	32	26	113	21	11	9.8
7	21	40	52	27	32	34	29	22	72	19	11	9.4
8	19	75	35	28	32	29	25	23	52	19	11	9.4
9	18	49	32	21	29	26	32	23	40	17	11	9.1
10	20	40	32	19	25	27	44	20	35	15	11	7.4
11	30	44	27	17	24	39	33	19	26	15	12	8.0
12	54	37	37	18	24	34	37	19	22	15	12	9.1
13	37	38	44	20	25	29	35	18	20	14	11	6.7
14	29	77	54	22	28	34	29	18	19	13	11	7.0
15	26	67	37	26	28	33	26	18	20	16	10	7.4
16	28	47	36	28	28	30	30	19	26	17	10	8.4
17	25	40	27	35	23	42	33	18	61	15	10	14
18	25	37	28	46	22	43	28	15	40	14	10	18
19	33	36	30	65	23	45	28	16	31	14	10	14
20	32	42	35	45	30	43	26	16	35	14	11	10
21	32	45	38	36	30	38	33	16	29	15	10	9.4
22	59	43	40	46	26	34	127	19	27	14	10	14
23	89	43	39	53	26	32	92	22	28	13	12	14
24	53	37	37	40	25	30	50	19	34	15	14	12
25	39	39	39	35	27	31	35	23	28	14	17	19
26	34	47	38	34	26	37	26	23	26	21	14	20
27	31	48	35	33	24	31	24	32	24	22	12	16
28	35	38	34	32	24	31	21	133	38	19	11	17
29	53	33	38	30	-----	50	22	88	33	17	10	24
30	41	33	117	27	-----	69	27	85	27	17	11	28
31	34	-----	127	26	-----	49	-----	67	-----	20	11	-----
TOTAL	1,049	1,298	1,370	1,131	820	1,122	1,247	975	1,142	547	361	372.1
MEAN	33.8	43.3	44.2	36.5	29.3	36.2	41.6	31.5	38.1	17.6	11.6	12.4
MAX	89	77	127	83	53	69	128	133	113	28	18	28
MIN	18	31	27	17	22	25	21	15	19	13	10	6.7
CFSM	1.97	2.52	2.57	2.12	1.70	2.10	2.42	1.83	2.22	1.02	.67	.72
IN.	2.27	2.81	2.96	2.45	1.77	2.43	2.70	2.11	2.47	1.18	.78	.80

CAL YR 1972 TOTAL 10,559.1 MEAN 28.9 MAX 136 MIN 8.1 CFSM 1.68 IN 22.84
WTR YR 1973 TOTAL 11,434.1 MEAN 31.3 MAX 133 MIN 6.7 CFSM 1.82 IN 24.73

PEAK DISCHARGE (BASE, 75 CFS)

NOTE.--No gage-height record Aug. 3 to Sept. 6.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	0600	4.71	98	12-13	1200	4.66	96	04-22	1000	6.47	172
11-08	1000	4.28	83	12-30	2000	6.21	163	05-28	0400	5.13	154
11-14	1900	4.37	86	04-01	0700	5.96	156	06-06	1500	4.73	136
12-06	1300	4.69	97								

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097970 Lime Lake Outlet at Panama, Ind.

LOCATION.--Lat 41°42'46", long 85°07'10", in NW 1/4 NW 1/4 sec.35, T.38 N., R.12 E., Steuben County, on right bank 10 ft (3 m) downstream from dam for Lime Lake, 30 ft (9 m) upstream from bridge on Orland Road, and 0.7 mile (1.1 km) northwest of Panama.

DRAINAGE AREA.--17.5 sq mi (45.3 sq km), of which 3.68 sq mi (9.53 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft (289.560 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 24 cfs (0.68 cu m/s) June 6, gage height, 4.43 ft (1.350 m); minimum daily discharge, 0.79 cfs (0.022 cu m/s) Sept. 27.

Period of record: Maximum discharge, 26 cfs (0.74 cu m/s) Apr. 20, 1970, gage height, 4.38 ft (1.335 m); maximum gage height, 4.43 ft (1.350 m) June 6, 1973; no flow at times most years.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.9	11	13	11	8.0	12	17	18	13	8.3	16
2	4.4	5.1	11	13	12	8.0	12	17	18	14	7.2	9.1
3	4.2	5.4	10	13	12	8.3	11	15	19	16	6.1	14
4	4.2	5.6	9.8	14	11	8.3	11	15	20	18	5.8	22
5	4.2	6.0	9.8	14	11	8.7	10	15	22	18	5.5	21
6	4.0	7.0	10	14	11	8.7	9.8	15	23	18	5.0	20
7	3.7	7.0	10	14	11	9.4	9.4	16	24	18	4.8	18
8	3.4	6.2	10	13	11	9.4	9.1	17	23	17	4.4	17
9	3.2	6.2	10	13	11	9.4	9.4	17	23	16	4.0	16
10	3.0	6.5	10	13	11	10	9.8	17	23	15	3.6	15
11	3.3	7.2	9.4	13	11	13	9.4	15	23	15	3.3	14
12	3.8	7.8	11	12	10	13	9.4	15	23	14	3.0	12
13	4.5	7.9	13	12	10	13	9.1	14	23	13	2.7	11
14	5.0	8.6	13	11	11	15	9.1	14	22	13	2.5	9.8
15	5.0	8.9	13	11	11	15	9.1	14	22	13	2.2	8.0
16	4.1	10	13	11	11	14	9.8	12	21	12	2.0	6.5
17	3.5	11	13	11	10	18	9.8	11	20	12	1.8	6.5
18	3.5	12	12	12	9.8	18	10	9.4	19	11	6.5	5.0
19	3.5	13	12	12	9.4	18	12	8.3	18	11	5.8	1.5
20	3.6	14	12	12	9.4	17	12	6.8	18	11	5.8	1.3
21	4.1	14	12	12	9.4	17	13	5.8	17	13	4.7	1.2
22	4.1	14	12	13	9.4	17	15	5.3	16	13	4.0	1.2
23	3.6	14	12	13	9.1	17	17	9.1	15	11	4.5	1.1
24	3.6	14	11	13	9.1	17	15	10	15	11	6.8	1.1
25	4.0	14	11	13	8.7	17	15	10	14	11	8.0	.95
26	4.3	15	11	13	8.7	16	14	9.8	14	11	8.7	.95
27	4.6	15	11	12	8.3	15	13	11	13	11	10	.79
28	5.2	14	11	12	8.0	13	13	13	14	9.4	15	.95
29	5.6	13	11	12	-----	13	14	16	14	9.1	19	1.2
30	5.6	11	12	12	-----	12	15	18	13	8.7	22	1.3
31	5.2	-----	13	11	-----	12	-----	18	-----	9.1	22	-----
TOTAL	128.6	298.3	350.0	387	285.3	408.2	347.2	406.5	567	405.3	215.0	254.44
MEAN	4.15	9.94	11.3	12.5	10.2	13.2	11.6	13.1	18.9	13.1	6.94	8.48
MAX	5.6	15	13	14	12	18	17	18	24	18	22	22
MIN	3.0	4.9	9.4	11	8.0	8.0	9.1	5.3	13	8.7	1.8	.79
CFSM	.24	.57	.65	.71	.58	.75	.66	.75	1.08	.75	.40	.48
IN.	.27	.63	.74	.82	.61	.87	.74	.86	1.21	.86	.46	.54

CAL YR 1972 TOTAL 1,771.51 MEAN 4.84 MAX 17 MIN 0 CFSM .28 IN 3.77
WTR YR 1973 TOTAL 4,052.84 MEAN 11.1 MAX 24 MIN .79 CFSM .63 IN 8.62

NOTE.--No gage-height record Oct. 1 to Nov. 21.

04098500 Fawn River near White Pigeon, Mich.

LOCATION.--Lat 41°46'56", long 85°35'00", in SW 1/4 sec.10, T.8 S., R.11 W., St. Joseph County, on right bank 0.3 mile (0.5 km) downstream from bridge on county highway, 3.1 miles (5.0 km) east of White Pigeon, and 3.5 miles (5.6 km) upstream from Sherman Mill Creek.

DRAINAGE AREA.--192 sq mi (497 sq km).

PERIOD OF RECORD.--July 1903 to July 1904 (gage heights and discharge measurements only), October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 805.4 ft (245.486 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 155 cfs (4.390 cu m/s), 10.96 in/yr (278 mm/yr).

EXTREMES.--Current year: Maximum discharge, 353 cfs (10.0 cu m/s) Apr. 1, gage height, 3.61 ft (1.100 m); minimum, 73 cfs (2.07 cu m/s) Sept. 27; minimum gage height, 2.19 ft (0.668 m) Oct. 22.

Period of record: Maximum daily discharge, 600 cfs (17.0 cu m/s) Jan. 30, 1969; minimum discharge, 26 cfs (0.74 cu m/s) Aug. 5, 1964; minimum gage height, 1.72 ft (0.524 m) Jan. 10, Sept. 10, 1964.

A daily mean discharge of 750 cfs (21.2 cu m/s) occurred Mar. 15, 1904.

REMARKS.--Records good. Small diurnal fluctuation caused by powerplants above station.

REVISIONS.--WSP 1911: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	152	198	284	216	190	251	273	326	173	177	142
2	145	143	203	200	234	171	246	272	322	170	198	147
3	125	146	202	211	243	201	237	272	322	174	210	141
4	120	151	201	225	233	129	228	268	315	180	205	134
5	124	155	199	224	238	207	222	264	303	186	199	130
6	122	142	216	210	221	223	215	261	303	199	192	130
7	123	146	213	200	216	218	211	254	305	215	184	125
8	126	175	192	290	224	225	202	236	302	222	170	116
9	110	158	198	270	229	223	293	245	298	211	157	116
10	119	170	199	250	209	218	285	255	295	195	140	115
11	110	178	149	224	196	231	280	252	290	189	138	112
12	122	175	193	243	198	250	278	225	287	186	142	114
13	120	176	207	239	204	248	276	230	281	180	139	105
14	112	193	220	237	217	252	272	222	270	177	145	107
15	112	201	227	248	225	260	268	229	265	163	139	92
16	110	212	207	256	204	262	266	237	260	153	133	96
17	110	207	193	252	174	272	266	214	254	149	126	98
18	102	208	193	262	193	291	266	214	245	153	121	87
19	112	202	222	276	212	289	266	184	230	146	119	87
20	106	203	250	258	214	298	250	207	221	149	131	94
21	101	222	254	256	209	302	254	199	215	163	129	92
22	102	222	251	263	209	317	285	201	211	171	134	85
23	124	220	250	258	202	317	293	218	201	169	141	88
24	149	213	252	249	193	317	298	248	200	167	163	82
25	160	217	240	246	191	320	295	274	196	165	174	78
26	136	225	243	251	191	324	292	289	193	157	179	82
27	122	219	230	238	184	322	289	298	189	145	179	81
28	153	209	224	237	189	324	284	213	186	146	170	85
29	142	217	233	233	-----	321	279	215	182	142	168	98
30	143	205	236	230	-----	327	276	224	179	138	160	119
31	146	-----	261	230	-----	360	-----	226	-----	158	150	-----
TOTAL	7,050	5,882	6,769	8,150	5,878	8,282	8,723	7,819	7,646	5,291	4,912	3,178
MEAN	127	189	218	263	210	267	291	252	255	171	158	106
MAX	160	225	261	275	243	360	351	326	326	222	210	147
MIN	101	142	169	174	171	171	250	184	179	138	119	78
CFSM	.66	.98	1.14	1.37	1.09	1.39	1.52	1.31	1.33	.89	.82	.55
IN.	.77	1.10	1.31	1.58	1.14	1.60	1.69	1.51	1.48	1.03	.95	.62

CAL YR 1972 TOTAL 54,222 MEAN 148 MAX 261 MIN 54 CFSM .77 IN 10.51
 WTD YR 1973 TOTAL 76,281 MEAN 209 MAX 351 MIN 78 CFSM 1.09 IN 14.78

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099000 St. Joseph River at Mottville, Mich.

LOCATION.—Lat 41°48'03", long 85°45'22", in SW 1/4 sec.6, T.8 S., R.12 W., Michigan meridian, St. Joseph County, on right bank 500 ft (152 m) upstream from bridge on U.S. Highway 12 at Mottville, 0.4 mile (0.6 km) downstream from Michigan Power Co. hydro-electric plant, 4 miles (6 km) upstream from Pigeon River, and at mile 96 (154 km).

DRAINAGE AREA.—1,866 sq mi (4,833 sq km).

PERIOD OF RECORD.—October 1923 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.—Water-stage recorder. Datum of gage is 755.3 ft (230.215 m) above mean sea level (Michigan Power Co. benchmark). Prior to Oct. 1, 1951, at site 0.4 mile (0.6 km) upstream at datum 4.2 ft (1.3 m) higher.

AVERAGE DISCHARGE.—50 years, 1,508 cfs (42.71 cu m/s), 10.97 in/yr (279 mm/yr).

EXTREMES.—Current year: Maximum discharge, 5,270 cfs (149 cu m/s) Jan. 5, gage height, 6.85 ft (2.088 m); minimum, 220 cfs (6.23 cu m/s) Sept. 22, gage height, 1.12 ft (0.341 m); minimum daily, 720 cfs (20.4 cu m/s) Sept. 16, 17.
Period of record: Maximum discharge, 10,700 cfs (303 cu m/s) Apr. 27, 1950, gage height, 6.56 ft (2.00 m), site and datum then in use; minimum daily, 39 cfs (1.10 cu m/s) Oct. 19, 1963.

REMARKS.—Records show regulated by powerplants above station.

REVISIONS (WATER YEARS).—WSP 1387: 1930, 1932, 1938, 1940-42, 1945. WSP 1911: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,740	1,410	1,890	3,840	2,580	1,740	3,940	3,250	4,340	1,560	2,050	893
2	1,800	1,290	1,900	4,340	2,510	1,740	3,970	3,230	4,490	1,600	2,320	1,210
3	1,640	1,570	1,860	4,400	2,520	1,760	3,940	3,270	4,150	1,710	2,430	1,190
4	1,650	1,380	1,860	4,700	2,590	2,080	3,860	3,050	3,930	1,660	2,180	1,530
5	1,490	1,370	1,880	4,470	2,700	2,400	3,680	2,990	3,890	2,190	2,130	1,500
6	1,340	1,410	1,970	4,410	2,780	2,540	3,540	2,860	3,830	2,050	2,140	829
7	1,120	1,540	1,960	4,240	2,610	2,730	3,420	2,640	3,730	1,480	2,180	1,500
8	1,160	1,690	1,850	4,160	2,460	2,790	3,230	2,580	3,530	1,810	1,760	799
9	1,190	1,570	1,810	3,840	2,450	2,680	3,120	2,620	3,360	2,010	1,980	873
10	1,560	1,570	1,880	3,630	2,450	2,650	3,080	2,560	3,400	1,740	1,740	1,410
11	979	1,680	1,930	3,360	2,250	2,710	3,080	2,480	3,290	1,890	1,430	1,070
12	965	1,630	1,910	2,990	2,250	2,570	2,940	2,440	3,050	1,740	1,360	1,100
13	1,180	1,700	1,950	3,020	2,190	2,830	2,930	2,450	2,900	1,740	1,740	1,100
14	1,130	1,960	1,990	2,770	2,230	3,050	2,900	2,230	2,550	1,460	1,860	1,500
15	783	1,970	2,170	2,800	2,180	3,060	2,840	2,280	2,430	1,300	1,440	1,220
16	965	2,120	2,220	2,750	1,980	3,110	2,780	2,150	2,440	1,590	1,770	720
17	1,021	2,230	2,120	2,780	1,880	3,100	2,830	2,150	2,270	1,420	1,420	720
18	925	2,040	2,140	2,820	1,870	3,110	2,770	1,970	2,180	1,620	1,270	1,230
19	984	1,920	2,390	2,950	1,920	3,320	2,770	1,940	2,210	1,490	1,110	1,190
20	1,046	2,010	2,490	3,080	2,130	3,250	2,850	1,980	2,210	1,300	1,680	1,170
21	1,100	2,160	2,400	3,020	1,960	3,270	2,820	1,990	2,160	1,240	1,700	1,090
22	800	2,110	2,550	2,990	1,970	3,330	3,180	1,950	1,780	1,220	1,710	797
23	900	2,000	2,400	3,050	2,130	3,340	3,460	2,120	1,550	1,340	1,690	951
24	1,100	2,000	2,570	3,020	1,810	3,500	4,040	2,180	1,630	1,230	1,750	1,180
25	1,300	2,180	2,560	3,000	1,840	3,480	4,430	2,260	2,110	1,080	1,310	986
26	1,420	2,160	2,600	2,980	1,970	3,460	4,290	2,480	1,740	1,200	1,430	727
27	1,380	2,080	2,560	2,930	1,840	3,270	3,970	2,700	1,850	1,470	1,620	1,050
28	1,400	2,160	2,560	2,890	1,820	3,330	3,670	3,190	1,760	1,540	1,680	1,050
29	1,470	2,090	2,650	2,810	---	3,500	3,520	3,590	1,760	1,550	1,270	1,440
30	1,350	1,910	2,800	2,750	---	3,710	3,320	3,940	1,500	1,690	1,300	993
31	1,380	---	3,140	2,810	---	3,770	---	4,350	---	1,920	1,400	---
TOTAL	39,163	54,910	69,160	103,600	61,870	91,180	101,170	81,870	82,020	48,840	52,850	33,018
MFAN	1,231	1,830	2,231	3,342	2,210	2,941	3,372	2,641	2,734	1,575	1,705	1,101
MAX	1,800	2,230	3,140	4,700	2,780	3,770	4,430	4,350	4,490	2,190	2,430	1,530
MIN	783	1,290	1,810	2,750	1,810	1,740	2,770	1,940	1,500	1,080	.91	.59
CFSM	.66	.98	1.20	1.79	1.18	1.58	1.81	1.42	1.47	.97	1.05	.66
IN.	.75	1.09	1.78	2.07	1.23	1.82	2.02	1.63	1.64	1.07	1.05	.66
CAL YR 1972	TOTAL 555,770			MFAN 1,518	MAX 3,780	MIN 535	CFSM .81			IN 11.08		
WTR YR 1973	TOTAL 818,651			MFAN 2,243	MAX 4,700	MIN 720	CFSM 1.20			IN 16.32		

04099500 Pigeon Creek and Hogback Lake near Angola, Ind.

LOCATION.--Lat 41°37'24", long 85°05'44", in NE 1/4 NW 1/4 sec.36, T.37 N., R.12 E., Steuben County, on right bank 200 ft (61 m) north of lake outlet, 2 miles (3.2 km) southeast of Flint, and 5.1 miles (8.2 km) west of Angola.

DRAINAGE AREA.--103 sq mi (267 sq km), of which 22.5 sq mi (58.3 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1945 to current year. Prior to October 1947, published as "near Flint". Published as Pigeon Creek near Hogback Lake Outlet near Angola, October 1947 to September 1971.

GAGE.--Water-stage recorder. Datum of gage is 940.00 ft (286.512 m) above mean sea level. Prior to October 1947, nonrecording gage at site 1.5 miles (2.4 km) downstream at different datum. October 1947 to Aug. 3, 1953, nonrecording gage at site 600 ft (183 m) downstream at same datum.

AVERAGE DISCHARGE.--28 years, 72.5 cfs (2.053 cu m/s), 9.56 in/yr (243 mm/yr).

EXTREMES.--Current year: Maximum discharge, 262 cfs (7.42 cu m/s) Mar. 28, gage height, 12.42 ft (3.786 m); minimum daily, 25 cfs (0.71 cu m/s) Sept. 24, 25, 27, 28.

Period of record: Maximum discharge, 744 cfs (21.1 cu m/s) Apr. 8, 1950, gage height, 14.95 ft (4.557 m); minimum daily, 3.4 cfs (0.096 cu m/s) Oct. 25-27, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1144: 1948. WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	52	109	179	115	64	247	161	247	72	90	46
2	37	52	103	205	114	66	233	152	247	70	102	44
3	37	55	99	222	114	74	225	143	247	72	110	43
4	36	60	96	225	119	84	217	136	247	76	110	41
5	36	65	94	225	124	102	205	132	247	80	104	40
6	35	69	94	220	127	119	193	125	247	90	98	38
7	34	72	94	210	127	137	183	120	247	100	92	36
8	33	76	96	200	127	149	172	118	247	115	85	35
9	31	83	98	180	122	155	170	114	247	145	79	34
10	30	93	98	170	116	160	185	110	234	170	76	34
11	28	100	96	160	110	168	189	108	216	195	72	33
12	28	106	96	150	102	181	174	106	197	199	70	32
13	28	110	100	140	96	194	159	103	177	203	69	31
14	30	121	106	130	93	203	150	100	160	204	68	30
15	31	143	114	120	90	214	146	96	144	196	64	29
16	32	169	121	110	86	219	144	92	132	180	61	28
17	32	180	123	105	82	232	148	88	121	163	58	28
18	32	185	121	100	79	237	156	84	112	146	56	28
19	31	190	118	100	76	241	167	81	104	131	55	27
20	31	191	115	102	74	248	174	78	98	122	57	27
21	31	185	113	102	73	252	177	75	91	117	57	26
22	31	177	113	106	73	255	183	72	85	112	57	26
23	33	169	113	110	72	256	197	76	80	106	56	26
24	35	160	115	117	71	256	211	81	78	103	58	25
25	39	151	118	124	68	257	218	89	75	98	58	25
26	44	144	122	125	66	260	218	97	72	94	57	26
27	47	135	124	126	65	261	210	108	70	89	56	25
28	48	127	124	125	64	262	198	127	71	86	54	25
29	50	122	122	125	-----	262	186	163	72	82	51	26
30	51	115	127	124	-----	261	172	222	72	78	48	27
31	51	-----	146	119	-----	253	-----	247	-----	80	47	-----
TOTAL	1,108	3,657	3,428	4,556	2,645	6,082	5,607	3,604	4,684	3,774	2,175	941
MEAN	35.7	122	111	147	94.5	196	187	116	156	122	70.2	31.4
MAX	51	191	146	225	127	262	247	247	247	204	110	46
MIN	28	52	94	100	64	64	144	72	70	70	47	25
CFSM	.35	1.18	1.08	1.43	.92	1.90	1.82	1.13	1.51	1.18	.68	.30
IN.	.40	1.32	1.24	1.65	.96	2.20	2.03	1.30	1.69	1.36	.79	.34
CAL YR 1972	TOTAL 22,102	MEAN 60.4	MAX 191	MIN 11	CFSM .59	IN 7.98						
WTR YR 1973	TOTAL 42,261	MEAN 116	MAX 262	MIN 25	CFSM 1.13	IN 15.26						

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099610 Pretty Lake Inlet near Stroh, Ind.

LOCATION.--41°34'49", long 85°14'59", in SW 1/4 NW 1/4 sec.15, T.36 N., R.11 E., Lagrange County, on left bank 400 ft (122 m) upstream from mouth and 2.6 miles (4.2 km) west of Stroh.

DRAINAGE AREA.--1.96 sq mi (5.08 sq km), of which 1.32 sq mi (3.42 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder with steel V-notch weir, 0.5 cfs (0.014 cu m/s) notch capacity. Datum of gage is 960.00 ft (292.608 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 0.46 cfs (0.013 cu m/s), 3.19 in/yr (81 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4.2 cfs (0.12 cu m/s) Nov. 14, gage height, 6.86 ft (2.091 m); minimum discharge, 0.15 cfs (0.004 cu m/s) Oct. 10.

Period of record: Maximum discharge, 33 cfs (0.93 cu m/s) Feb. 5, 1971, gage height, 9.30 ft (2.835 m); maximum gage height, 9.46 ft (2.883 m) Feb. 4, 1971 (backwater from ice); no flow for many days in most years.

REMARKS.--Records fair.

REVISIONS.--WSP 1911: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.49	.49	1.7	.59	.45	1.1	.86	.80	.46	.80	.32
2	.25	.69	.49	1.3	.65	.50	1.1	.86	.70	.46	.68	.30
3	.24	.69	.55	1.4	.69	.70	1.0	.86	.60	.69	.58	.29
4	.23	.62	.49	1.9	.69	.80	.95	.82	.70	1.1	.50	.28
5	.30	.55	.49	1.4	.69	1.0	.95	.73	.80	1.2	.43	.28
6	.25	.49	.82	.96	.69	1.1	.90	.69	1.0	1.1	.37	.27
7	.21	.59	.69	.74	.69	1.0	.86	.65	1.3	.90	.33	.26
8	.19	1.2	.59	.68	.65	.92	.86	.78	1.1	.73	.30	.25
9	.17	1.1	.53	.64	.62	.86	.86	.82	1.0	.62	.30	.26
10	.15	.95	.48	.60	.59	.80	1.1	.69	.90	.55	.40	.24
11	.20	.78	.44	.56	.41	1.2	.90	.65	.82	.49	.37	.23
12	.50	.69	.77	.54	.24	2.0	.90	.63	.73	.46	.44	.22
13	.40	.87	1.1	.52	.28	1.6	.90	.62	.73	.41	.40	.22
14	.32	3.5	.82	.51	.52	1.4	.86	.60	.62	.39	.36	.21
15	.26	1.9	.69	.52	.55	1.5	.82	.60	.59	.36	.32	.20
16	.21	1.4	.60	.55	.46	1.4	.98	.58	.59	.36	.32	.19
17	.19	1.3	.54	.62	.39	2.0	1.1	.56	.55	.36	.30	.19
18	.17	1.2	.59	.69	.45	2.8	.95	.54	.55	.34	.32	.19
19	.16	1.0	.59	.82	.46	2.0	1.2	.52	.55	.32	.36	.18
20	.16	1.0	.62	.82	.49	1.7	1.1	.51	.52	.41	.49	.17
21	.16	1.0	.69	.73	.52	1.6	.95	.50	.49	.55	.52	.17
22	.48	1.0	.73	.86	.49	1.5	.95	.60	.46	.55	.52	.16
23	1.1	.90	.73	.95	.46	1.4	.95	.70	.49	.52	.52	.16
24	.90	.69	.69	.90	.46	1.3	.90	.64	.65	.55	.52	.16
25	.78	.59	.69	.73	.44	1.2	.90	.60	.56	.55	.52	.17
26	.69	.55	.69	.73	.41	1.6	.86	.58	.49	.55	.52	.19
27	.62	.55	.62	.73	.40	1.5	.82	.64	.49	.59	.49	.19
28	.59	.55	.62	.69	.40	1.3	.82	.70	.56	.55	.46	.21
29	.59	.52	.62	.69	-----	1.1	.82	.70	.59	.52	.41	.24
30	.59	.49	1.9	.78	-----	1.1	.82	.80	.56	.50	.39	.24
31	.52	-----	2.9	.65	-----	1.1	-----	.90	-----	.70	.32	-----
TOTAL	11.85	27.85	23.26	25.91	14.38	40.43	28.18	20.93	20.49	17.84	13.56	6.64
MEAN	.38	.93	.75	.84	.51	1.30	.94	.68	.68	.58	.44	.22
MAX	1.1	3.5	2.9	1.9	.69	2.8	1.2	.90	1.3	1.2	.80	.32
MIN	.15	.49	.44	.51	.24	.45	.82	.50	.46	.32	.30	.16
CFSM	.19	.47	.38	.43	.26	.66	.48	.35	.35	.30	.22	.11
IN.	.22	.53	.44	.49	.27	.77	.53	.40	.39	.34	.26	.13

CAL YR 1972 TOTAL 130.76 MEAN .36 MAX 3.5 MIN 0 CFSM .18 IN 2.48
WTR YR 1973 TOTAL 251.32 MEAN .69 MAX 3.5 MIN .15 CFSM .35 IN 4.77

NOTE.--No gage-height record Feb. 27 to Mar. 29.

04099750 Pigeon River near Scott, Ind.

LOCATION.--Lat 41°44'56", long 85°34'35", in SE 1/4 NW 1/4 sec.14, T.38 N., R.8 E., Lagrange County, on right bank 20 ft (6 m) downstream from bridge on County Road 750 North, 1,200 ft (366 m) downstream from Page ditch, 0.7 mile (1.1 km) south of Indiana-Michigan state line, and 1.2 miles (1.9 km) northwest of Scott.

DRAINAGE AREA.--361 sq mi (935 sq km), of which 53.9 sq mi (139.6 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.00 ft (248.412 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 324 cfs (9.18 cu m/s), 12.19 in/yr (310 mm/yr).

EXTREMES.--Current year: Maximum discharge, 934 cfs (26.5 cu m/s) June 8, gage height, 5.21 ft (1.588 m); minimum daily, 151 cfs (4.28 cu m/s) Sept. 28.

Period of record: Maximum discharge, 1,450 cfs (41.1 cu m/s) Feb. 1, 1969, gage height, 6.34 ft (1.932 m); minimum daily, 42 cfs (1.19 cu m/s) Oct. 21, 1971.

REMARKS.--Records good.

REVISIONS.--WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322	310	442	864	446	328	749	549	703	298	370	238
2	294	329	470	834	471	341	728	546	684	248	375	230
3	280	343	459	755	489	363	711	524	693	330	335	228
4	270	344	448	794	446	380	641	497	708	420	322	215
5	272	326	437	819	471	391	670	472	743	450	320	210
6	270	318	451	731	464	404	645	455	806	432	312	208
7	260	323	454	720	457	414	616	444	872	418	305	202
8	244	366	445	700	459	425	585	450	914	420	290	198
9	235	415	433	670	447	424	567	456	799	425	282	198
10	225	411	430	663	435	436	569	442	720	430	278	199
11	225	397	420	633	423	479	562	425	660	422	265	195
12	235	394	415	616	415	544	546	413	636	405	255	187
13	240	407	415	540	400	572	528	401	609	388	242	180
14	234	470	415	550	396	552	506	397	563	375	232	175
15	225	579	440	500	406	557	488	395	520	370	228	172
16	223	635	470	470	401	574	484	382	495	365	222	168
17	221	604	503	480	374	599	492	368	474	358	218	171
18	220	543	526	485	395	642	495	357	454	350	212	177
19	215	591	534	508	371	661	496	349	432	335	225	176
20	211	618	491	492	363	681	512	343	409	352	285	167
21	211	630	490	461	372	700	526	321	385	388	292	161
22	231	639	496	466	366	706	571	313	349	380	265	160
23	295	629	496	508	357	710	605	388	344	340	250	155
24	356	605	489	515	350	714	644	440	362	315	300	152
25	306	544	485	486	343	723	614	448	358	298	315	153
26	316	576	487	475	337	745	591	424	337	292	288	153
27	302	567	483	479	328	762	579	417	320	285	268	153
28	299	548	475	486	323	745	567	481	312	298	255	151
29	312	522	470	483	-----	749	554	520	315	278	245	166
30	317	494	524	466	-----	752	550	586	312	268	240	185
31	308	-----	712	451	-----	749	-----	658	-----	345	245	-----
TOTAL	8,182	14,551	14,745	18,140	11,350	17,831	17,441	13,661	16,288	11,118	8,536	5,483
MEAN	264	485	476	585	405	575	581	441	543	359	275	183
MAX	356	639	712	864	489	762	749	658	914	450	375	238
MIN	211	300	415	451	323	328	484	313	312	268	212	151
CFSM	.73	1.34	1.32	1.62	1.12	1.59	1.61	1.22	1.50	.99	.76	.51
IN.	.84	1.50	1.52	1.87	1.17	1.84	1.80	1.41	1.68	1.15	.88	.57
CAL YR 1972	TOTAL 102,340	MEAN 280	MAX 712	MIN 84	CFSM .78	IN 10.55						
WTR YR 1973	TOTAL 157,326	MEAN 431	MAX 914	MIN 151	CFSM 1.19	IN 16.21						

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100222 North Branch Elkhart River at Cosperville, Ind.

LOCATION.—Lat 41°28'54", long 85°28'32", in NE 1/4 NW 1/4 sec.22, T.35 N., R.9 E., Noble County, on right bank at downstream side of bridge on County Road 900 North, 1,300 ft (396 m) downstream from Boyd ditch, 1.7 miles (2.7 km) upstream from Hustin ditch, and 3.1 miles (5.0 km) downstream from Waldron Lake.

DRAINAGE AREA.—142 sq mi (368 sq km)

PERIOD OF RECORD.—October 1971 to current year. October 1950 to September 1971 at site 3.1 miles (5.0 km) upstream, published as North Branch Elkhart River near Cosperville. Records may not be equivalent.

GAGE.—Water-stage recorder. Datum of gage is 880.00 ft (268.224 m) above mean sea level.

EXTREMES.—Current year: Maximum discharge, 422 cfs (12.0 cu m/s) Jan. 4, 5, gage height, 5.98 ft (1.823 m); minimum daily, 26 cfs (0.74 cu m/s) Sept. 22.

Period of record: Maximum discharge, 422 cfs (12.0 cu m/s) Jan. 4, 1972, gage height, 5.98 ft (1.823 m); minimum daily, 2.4 cfs (0.068 cu m/s) Nov. 21, 1971.

REMARKS.—Records good. Flow regulated at times by dam at Waldron Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	207	298	397	223	151	368	276	320	96	84	59
2	226	216	279	403	231	155	364	268	313	90	99	58
3	214	226	268	401	239	166	360	256	307	102	88	57
4	211	227	259	415	240	173	358	240	302	123	74	51
5	211	223	249	422	239	181	350	228	316	128	63	48
6	201	218	252	420	232	185	339	215	336	116	57	46
7	194	219	254	400	226	186	334	201	353	103	51	41
8	187	240	249	370	221	187	326	198	355	93	46	40
9	175	258	243	340	230	189	318	196	347	86	43	41
10	167	263	237	320	220	196	310	190	334	79	48	40
11	170	265	232	300	210	215	302	186	320	74	52	39
12	198	263	227	280	195	239	300	182	312	67	59	38
13	197	270	242	265	190	251	292	177	296	60	58	37
14	201	355	310	250	185	258	284	172	276	58	54	36
15	200	390	350	235	190	269	275	164	262	54	51	34
16	197	406	300	220	190	280	272	159	248	51	47	33
17	189	410	260	220	160	318	286	154	233	50	44	34
18	182	408	280	225	160	331	294	150	226	47	42	34
19	175	404	280	240	180	345	305	149	211	44	48	34
20	166	403	281	235	180	356	308	144	198	52	82	31
21	159	397	281	229	181	363	308	141	182	66	105	28
22	163	390	283	237	176	368	334	141	170	62	96	26
23	193	380	281	254	173	368	366	146	159	58	80	27
24	210	369	279	259	170	368	372	152	155	52	83	28
25	215	360	276	256	166	372	366	159	150	49	82	27
26	215	352	274	250	161	387	353	164	142	48	77	30
27	213	342	270	247	155	387	336	173	131	52	70	28
28	212	333	265	250	151	380	315	198	124	57	66	28
29	213	317	261	250	-----	376	299	264	114	53	63	34
30	212	303	308	249	-----	371	288	302	102	48	62	38
31	210	-----	371	250	-----	369	-----	318	-----	64	59	-----
TOTAL	6,111	9,414	8,491	9,089	5,474	8,740	9,682	6,063	7,294	2,182	2,033	1,125
MFAN	197	314	274	293	196	282	323	196	243	70.4	65.6	37.5
MAX	233	410	371	422	240	387	372	318	355	128	105	59
MIN	159	207	227	220	151	151	272	141	102	44	42	26
CFSM	1.39	2.21	1.93	2.06	1.38	1.99	2.27	1.38	1.71	.50	.46	.26
IN.	1.60	2.47	2.22	2.38	1.43	2.29	2.54	1.59	1.91	.57	.53	.29

CAL YR 1972 TOTAL 52,760 MFAN 144 MAX 410 MIN 12 CFSM 1.01 IN 13.82
WTR YR 1973 TOTAL 75,698 MFAN 207 MAX 422 MIN 26 CFSM 1.46 IN 19.83

04100252 Forker Creek near Burr Oak, Ind.

LOCATION.—Lat 41°19'58", long 85°25'25", in SE 1/4 NE 1/4 sec.12, T.33 N., R.9 E., Noble County, on right bank 300 ft (91 m) downstream from bridge on State Highway 9, 400 ft (122 m) downstream from Miller Lake outlet, 0.8 mile (1.3 km) northwest of Burr Oak, and 4.5 miles (7.2 km) south of Albion.

DRAINAGE AREA.—19.2 sq mi (49.7 sq km).

PERIOD OF RECORD.—June 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 889.00 ft (270.967 m) above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 134 cfs (3.79 cu m/s) June 7, gage height, 4.47 ft (1.362 m); minimum daily, 0.56 cfs (0.016 cu m/s) Sept. 19–21.

Period of record: Maximum discharge, 134 cfs (3.79 cu m/s) June 7, 1973, gage height, 4.47 ft (1.362 m); minimum daily, 0.13 cfs (0.004 cu m/s) Sept. 10, 1972.

REMARKS.—Records good. Occasional regulation at Miller Lake outlet.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	22	18	94	18	13	44	27	58	20	5.1	7.7
2	23	28	14	90	19	14	43	25	59	20	4.9	6.3
3	21	40	17	74	22	16	42	23	58	14	4.5	5.7
4	21	52	17	73	23	21	41	22	59	19	4.1	4.9
5	22	52	17	68	24	25	38	21	83	19	3.7	3.5
6	23	45	20	50	22	28	32	20	109	18	3.3	2.9
7	23	40	22	40	21	31	27	19	132	16	2.5	2.1
8	21	48	25	30	19	36	25	21	127	13	1.8	1.6
9	18	55	24	25	17	40	23	21	109	12	1.6	1.6
10	16	57	22	20	16	40	24	22	96	10	2.5	1.5
11	15	54	20	17	14	45	23	22	85	7.9	2.1	1.3
12	26	48	20	14	13	56	24	21	76	6.1	3.9	1.0
13	34	44	28	13	12	62	25	21	69	5.1	3.7	1.0
14	44	70	37	13	13	60	25	20	63	4.5	3.5	.87
15	46	101	40	12	14	58	25	19	57	4.1	3.3	.79
16	40	109	90	12	14	56	28	19	53	3.5	2.1	.71
17	31	95	30	12	14	59	34	18	51	3.1	2.0	.71
18	24	76	24	12	14	59	35	18	48	2.7	2.1	.63
19	21	63	21	14	13	60	40	18	46	2.5	2.9	.56
20	18	54	19	15	13	62	40	19	43	2.9	13	.56
21	16	46	19	16	14	60	41	19	40	3.1	23	.56
22	16	42	20	21	14	58	52	20	37	3.1	37	.63
23	22	36	21	30	14	54	78	20	34	2.9	33	.71
24	28	32	22	40	14	52	93	21	37	3.1	25	.79
25	36	28	23	38	13	57	84	21	33	3.1	33	.79
26	36	25	25	34	13	64	68	21	30	3.1	29	.79
27	32	23	25	30	13	66	56	23	27	3.1	20	.79
28	29	22	23	27	12	60	44	27	26	2.9	15	.79
29	27	20	23	25	-----	56	34	30	24	2.5	12	1.2
30	24	19	32	22	-----	52	30	38	22	2.5	11	1.2
31	23	-----	64	19	-----	48	-----	48	-----	4.1	9.1	-----
TOTAL	808	1,446	826	1,000	442	1,468	1,218	704	1,791	241.9	319.7	54.18
MEAN	26.1	48.2	26.6	32.3	15.8	47.4	40.6	22.7	59.7	7.80	10.3	1.81
MAX	48	109	90	94	24	66	93	48	132	20	37	7.7
MIN	15	19	17	12	12	13	23	18	22	2.5	1.6	.56
CFSM	1.36	2.51	1.39	1.68	.82	2.47	2.11	1.18	3.11	.41	.54	.09
IN.	1.57	2.80	1.60	1.94	.86	2.84	2.36	1.36	3.47	.47	.62	.10
CAL YR 1972	TOTAL	6,885.94	MEAN	18.8	MAX	109	MIN	.13	CFSM	.98	IN	13.34
WTR YR 1973	TOTAL	10,318.78	MEAN	28.3	MAX	132	MIN	.56	CFSM	1.47	IN	19.99

04100465 Turkey Creek at Syracuse, Ind.

LOCATION.—Lat 41°25'35", long 85°45'16", in NE 1/4 SE 1/4 sec.6, T.34 N., R.7 E., Kosciusko County, on right bank 75 ft (23 m) upstream from Main Street bridge in Syracuse and 1,500 ft (457 m) downstream from dam at outlet of Syracuse Lake.

DRAINAGE AREA.—43.8 sq mi (113.4 sq km).

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 848.00 ft (258.470 m) above mean sea level.

EXTREMES.—Current year: Maximum discharge, 99 cfs (2.80 cu m/s) Dec. 30, gage height, 4.04 ft (1.231 m); maximum gage height, 4.15 ft (1.265 m) Oct. 11; minimum daily, 2.6 cfs (0.074 cu m/s) Sept. 23.

Period of record: Maximum discharge, 114 cfs (3.23 cu m/s) May 24, 1970, Apr. 21, 1972; maximum gage height, 4.59 ft (1.399 m) May 24, 1970; minimum daily discharge, 1.4 cfs (0.040 cu m/s) Oct. 17, 1971 (corrected).

REMARKS.—Records good. Flow occasionally regulated by dam on Syracuse Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	66	66	97	75	67	79	81	76	17	7.2	59
2	71	69	66	90	78	67	80	80	70	18	6.7	22
3	70	69	65	87	80	67	79	79	73	20	7.0	3.9
4	70	68	66	88	79	67	79	77	76	28	6.7	3.8
5	70	66	66	84	77	69	77	76	87	31	6.1	3.8
6	70	66	69	81	76	51	76	65	88	31	6.7	3.5
7	69	66	70	78	75	34	75	56	86	28	6.7	3.5
8	68	68	68	76	75	33	74	58	83	23	6.7	3.3
9	69	69	68	74	74	33	78	58	81	15	7.9	3.2
10	69	68	67	73	73	35	86	45	79	11	8.4	3.3
11	74	66	67	71	72	40	85	35	79	6.6	7.9	3.3
12	70	64	71	70	72	44	86	35	79	6.4	6.9	3.3
13	69	69	78	69	71	41	85	33	78	6.0	7.2	3.5
14	66	81	82	68	72	39	84	29	65	5.4	7.6	3.5
15	64	83	81	67	72	39	83	21	58	5.0	7.2	3.3
16	64	80	80	67	72	41	84	11	56	5.2	6.9	2.7
17	63	76	78	67	71	50	85	11	57	5.6	6.0	3.2
18	62	73	78	68	70	52	86	11	56	5.6	6.0	3.3
19	63	70	78	72	70	54	87	11	46	5.6	5.6	3.3
20	64	70	78	77	70	60	85	10	37	7.4	7.2	3.3
21	63	70	79	76	70	66	83	9.7	37	6.6	6.4	3.0
22	67	70	80	81	70	65	88	9.7	32	6.7	6.2	3.0
23	72	68	78	85	70	64	93	10	18	6.7	6.0	2.6
24	73	68	78	82	69	63	90	9.7	27	6.3	6.9	3.0
25	71	66	78	79	67	64	87	11	27	6.3	6.2	3.3
26	70	67	79	78	67	67	83	10	27	6.5	5.6	3.2
27	68	66	79	78	67	67	82	12	25	7.0	5.6	3.2
28	68	68	78	77	67	65	80	14	20	6.7	5.6	3.5
29	68	67	78	77	-----	70	79	16	20	5.4	5.6	3.9
30	68	66	88	76	-----	77	80	50	18	6.1	5.8	3.0
31	67	-----	98	75	-----	78	-----	83	-----	7.9	31	-----
TOTAL	2,113	2,085	2,335	2,388	2,021	1,729	2,478	1,117.1	1,661	353.0	229.5	173.7
MEAN	68.2	69.5	75.3	77.0	72.2	55.4	82.6	36.0	55.4	11.4	7.40	5.79
MAX	74	83	98	97	80	78	93	83	88	31	31	59
MIN	62	64	65	67	67	33	74	9.7	18	5.0	5.6	2.6
CFSM	1.56	1.59	1.72	1.76	1.65	1.27	1.89	.82	1.26	.26	.17	.13
IN.	1.74	1.77	1.98	2.03	1.72	1.47	2.10	.95	1.41	.30	.19	.15
CAL YP 1972	TOTAL 14,532.2	MEAN 39.7	MAX 108	MIN 3.1	CFSM .91	IN 12.34						
WTW YR 1973	TOTAL 18,683.3	MEAN 51.2	MAX 98	MIN 2.6	CFSM 1.17	IN 15.87						

04100500 Elkhart River at Goshen, Ind.

LOCATION.--Lat 41°35'36", long 85°50'55", in NE 1/4 NE 1/4 sec.8, T.36 N., R.6 E., Elkhart County, on right bank 20 ft (6 m) downstream from River Avenue bridge at Goshen and 0.5 mile (0.8 km) upstream from Rock Run.

DRAINAGE AREA.--594 sq mi (1,538 sq km).

PERIOD OF RECORD.--April 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 769.43 ft (234.522 m) above mean sea level. Prior to Nov. 20, 1931, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 500 cfs (14.2 cu m/s), 11.43 in/yr (290 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,150 cfs (89.2 cu m/s) Dec. 31, gage height, 7.64 ft (2.329 m); minimum daily, 157 cfs (4.45 cu m/s) Sept. 27.

Period of record: Maximum discharge, 5,440 cfs (154 cu m/s) Apr. 4, 1950, gage height, 10.15 ft (3.094 m); maximum gage height, 10.33 ft (3.149 m) July 10, 1951; minimum daily discharge, 7.0 cfs (0.20 cu m/s) Aug. 11, 1964, result of extreme regulation.

REMARKS.--Records good. The flow is regulated by three powerplants upstream from station.

REVISIONS (WATER YEARS).--WSP 1337: 1939(M). WSP 1557: 1954. WSP 2111: Drainage area.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,260	774	923	2,810	915	573	1,330	969	1,270	404	304	276
2	1,010	801	888	2,060	1,040	590	1,420	952	1,050	380	312	288
3	880	944	852	1,680	1,260	627	1,300	921	939	424	316	276
4	813	956	830	1,660	1,190	683	1,180	885	901	452	312	240
5	818	862	804	1,680	1,060	705	1,120	846	946	444	296	222
6	812	817	860	1,480	1,000	751	1,060	818	1,120	424	280	219
7	750	790	960	1,310	965	745	1,010	803	1,300	408	264	212
8	698	888	872	1,200	935	700	968	795	1,170	380	256	202
9	653	1,050	821	1,140	885	668	948	797	998	372	244	202
10	623	991	791	1,040	835	678	962	779	927	360	284	202
11	631	929	696	980	780	833	955	758	903	336	292	196
12	837	901	734	920	740	1,240	932	734	900	316	276	187
13	1,170	906	1,080	880	730	1,100	924	715	883	304	284	184
14	1,050	1,390	1,410	870	725	950	895	710	840	284	256	181
15	886	2,060	1,170	860	745	949	855	683	803	268	252	181
16	831	1,910	947	860	700	951	851	654	770	276	240	175
17	791	1,550	787	840	602	1,020	886	627	752	264	230	181
18	769	1,370	907	855	625	1,180	901	607	727	244	226	187
19	735	1,310	900	970	686	1,310	932	601	685	248	226	175
20	693	1,310	927	1,010	663	1,420	968	594	646	296	264	169
21	678	1,310	963	930	675	1,460	992	575	604	328	276	172
22	700	1,330	1,080	960	674	1,390	1,210	573	573	316	284	169
23	991	1,250	1,090	1,250	651	1,320	1,560	582	548	316	288	169
24	1,420	1,190	1,030	1,260	643	1,250	1,470	561	557	292	324	163
25	1,280	1,120	1,040	1,060	627	1,240	1,250	589	539	284	312	160
26	1,030	1,110	1,060	1,030	614	1,400	1,140	608	503	272	312	172
27	905	1,110	997	1,050	597	1,470	1,080	581	490	264	308	157
28	836	1,070	936	1,100	569	1,270	1,030	692	472	288	304	175
29	825	1,000	904	1,110	-----	1,360	984	769	444	288	292	163
30	835	948	1,280	1,000	-----	1,490	971	913	424	268	284	190
31	804	-----	2,690	945	-----	1,380	-----	1,320	-----	284	280	-----
TOTAL	27,014	33,947	31,229	36,800	22,131	32,703	32,084	23,011	23,684	10,084	8,678	5,845
MEAN	871	1,132	1,007	1,187	790	1,055	1,069	742	789	325	280	195
MAX	1,420	2,060	2,690	2,810	1,260	1,490	1,560	1,320	1,300	452	324	288
MIN	623	774	696	840	569	573	851	561	424	244	226	157
CFSM	1.47	1.91	1.70	2.00	1.33	1.78	1.80	1.25	1.33	.55	.47	.33
IN.	1.69	2.13	1.96	2.30	1.39	2.05	2.01	1.44	1.48	.63	.54	.37

CAL YR 1972 TOTAL 225,462 MEAN 616 MAX 2,690 MIN 135 CFSM 1.04 IN 14.12
WTR YR 1973 TOTAL 287,210 MEAN 787 MAX 2,810 MIN 157 CFSM 1.32 IN 17.99

PEAK DISCHARGE (BASE, 1,800 CFS).--Nov. 15 (1500) 2,160 cfs (6.04 ft); Dec. 31 (2300) 3,150 cfs (7.64 ft).

04101000 St. Joseph River at Elkhart, Ind.

LOCATION.—Lat 41°41'30", long 85°58'30", in SW 1/4 NE 1/4 sec.5, T.37 N., R.5 E., Elkhart County, on left bank 200 ft (61 m) downstream from mouth of Elkhart River, 200 ft (61 m) upstream from Main Street bridge in Elkhart, 2,000 ft (610 m) downstream from Christiansa Creek, and 0.5 mile (0.8 km) downstream from Elkhart Hydroelectric Plant.

DRAINAGE AREA.—3,370 sq mi (8,728 sq km).

PERIOD OF RECORD.—August 1947 to current year. Gage heights at site 0.8 mile (1.3 km) downstream at different datum for September 1924 to March 1926 are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level.

AVERAGE DISCHARGE.—26 years, 3,030 cfs (85.8 cu m/s), 12.21 in/yr (310 mm/yr).

EXTREMES.—Current year: Maximum discharge, 9,400 cfs (266 cu m/s) Jan. 4, gage height, 23.21 ft (7.074 m); minimum daily, 1,160 cfs (32.9 cu m/s) Sept. 17.

Period of record: Maximum discharge, 18,400 cfs (521 cu m/s) Apr. 5, 1950, gage height, 27.82 ft (8.480 m); minimum daily, 336 cfs (9.52 cu m/s) Aug. 5, 1964.

REMARKS.—Records good. The flow is regulated by Elkhart Hydroelectric Plant and by a hydroelectric plant on Elkhart River at Goshen.

REVISIONS.—WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,610	3,270	4,130	8,880	4,880	3,470	7,320	5,680	7,410	2,830	3,090	1,560
2	3,830	3,050	4,090	8,510	4,940	3,560	7,310	5,550	7,200	2,860	3,200	1,720
3	3,600	3,440	3,990	8,120	5,320	3,630	7,130	5,640	7,000	2,560	3,520	1,850
4	3,290	3,480	3,930	8,500	5,310	4,150	6,900	5,380	6,620	3,280	3,200	2,030
5	3,290	3,260	3,900	7,880	5,210	4,270	6,630	5,140	6,690	3,620	2,960	2,070
6	3,120	3,200	4,110	7,430	5,270	4,770	6,320	5,080	6,710	3,380	3,090	1,480
7	2,740	3,290	4,270	6,770	5,040	4,870	6,120	4,710	6,930	3,040	2,830	1,750
8	2,650	3,570	4,020	6,790	4,880	5,080	5,820	4,580	6,660	2,930	2,740	1,490
9	2,590	3,870	3,820	6,690	4,700	4,860	5,600	4,690	6,290	3,140	2,550	1,320
10	2,760	3,600	3,830	5,940	4,670	4,820	5,610	4,550	6,130	3,070	2,630	1,750
11	2,890	3,630	3,690	5,040	4,480	5,110	5,600	4,390	5,880	2,990	2,140	1,720
12	2,380	3,810	3,900	5,190	4,110	5,570	5,500	4,260	5,670	2,920	2,060	1,510
13	3,040	3,590	4,520	4,980	4,170	5,650	5,310	4,270	5,430	2,860	2,310	1,510
14	3,020	4,790	4,630	5,300	4,200	5,710	5,240	4,160	4,910	2,560	2,410	1,770
15	2,600	5,580	4,840	5,380	4,270	5,720	5,080	3,890	4,610	2,410	2,350	1,710
16	2,530	5,610	4,420	5,220	4,010	5,760	4,970	4,010	4,610	2,420	2,070	1,250
17	2,380	5,510	3,860	5,280	4,010	5,930	5,090	3,720	4,470	2,390	2,350	1,160
18	2,500	4,960	3,910	4,670	3,750	6,070	5,010	3,630	4,070	2,350	1,710	1,630
19	2,270	4,750	4,490	5,450	3,850	6,370	5,040	3,520	4,110	2,450	1,750	1,620
20	2,360	4,750	5,150	5,580	3,570	6,570	5,170	3,540	3,910	2,210	2,240	1,560
21	2,480	4,980	4,950	5,430	3,960	6,590	5,200	3,540	3,800	2,280	2,390	1,440
22	2,630	5,070	5,070	5,440	3,870	6,530	6,080	3,500	3,280	2,170	2,420	1,240
23	3,110	4,810	5,180	5,890	3,980	6,510	6,770	3,600	2,950	2,180	2,350	1,340
24	3,980	4,710	5,070	5,910	3,760	6,470	7,060	3,840	3,150	2,110	2,490	1,900
25	3,460	4,740	5,010	5,590	3,650	6,520	7,170	4,070	3,490	2,210	2,240	1,910
26	3,460	4,740	4,870	5,520	3,760	6,640	7,130	4,330	3,290	1,720	2,170	1,380
27	3,300	4,690	4,720	5,480	3,590	6,560	6,740	4,550	3,350	2,140	2,250	1,460
28	3,360	4,650	4,840	5,490	3,560	6,350	6,360	5,280	3,090	2,180	2,350	1,560
29	3,120	4,560	4,710	5,430	-----	6,670	5,950	5,870	3,030	2,520	1,980	1,670
30	3,300	4,340	5,410	5,200	-----	7,130	5,790	6,430	2,770	2,500	2,010	1,560
31	2,960	-----	7,750	5,140	-----	7,060	-----	7,340	-----	2,630	2,070	-----
TOTAL	92,610	128,250	141,480	188,120	120,770	174,970	181,020	142,740	147,510	80,710	75,920	47,920
MEAN	2,987	4,275	4,564	6,068	4,313	5,644	6,034	4,605	4,917	2,604	2,449	1,597
MAX	3,980	5,610	7,750	8,880	5,320	7,130	7,320	7,340	7,410	3,620	3,520	2,070
MIN	2,270	3,050	3,690	4,670	3,560	3,470	4,970	3,500	2,770	1,720	1,710	1,160
CFSM	.89	1.27	1.35	1.80	1.24	1.67	1.79	1.37	1.46	.77	.73	.47
IN.	1.02	1.42	1.56	2.04	1.33	1.93	2.00	1.58	1.63	.89	.84	.53
CAL YR 1972	TOTAL 1,139,850	MEAN 3,114	MAX 7,750	MIN 1,040	CFSM .92	IN 12.58						
WTH YR 1973	TOTAL 1,522,020	MEAN 4,170	MAX 8,880	MIN 1,160	CFSM 1.24	IN 16.80						

04101500 St. Joseph River at Niles, Mich.

LOCATION.—Lat 41°49'45", long 86°15'35", in SW 1/4 sec.26, T.7 S., R.17 W., Berrien County, on right bank 100 ft (30 m) upstream from Main Street bridge at Niles, 0.6 mile (1.0 km) downstream from dam at French Paper Co., 1 mile (2 km) upstream from Dowagiac River, and at mile 44 (71 km).

DRAINAGE AREA.—3,666 sq mi (9,495 sq km).

PERIOD OF RECORD.—October 1930 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.—Water-stage recorder. Datum of gage is 633.02 ft (192.944 m) above mean sea level. Prior to Oct. 1, 1968, at datum 2.00 ft (0.610 m) higher. Oct. 1, 1930, to Feb. 11, 1931, nonrecording gage on Main Street bridge, on Feb. 12 to June 30, 1931, nonrecording gage 50 ft (15 m) upstream from present site (gage heights referred to mean sea level). Since Apr. 13, 1970, auxiliary water-stage recorder 1.1 mile (1.8 km) downstream from base gage at same datum. Oct. 1, 1943, to Apr. 12, 1970, auxiliary gage was headwater gage at hydroelectric plant at Buchanan Dam, 8 miles (13 km) downstream from base gage at different datum.

AVERAGE DISCHARGE.—43 years, 3,112 cfs (88.13 cu m/s), 11.53 in/yr (293 mm/yr).

EXTREMES.—Current year: Maximum discharge, 10,800 cfs (306 cu m/s) Jan. 1, gage height, 10.42 ft (3.176 m); minimum daily, 1,490 cfs (42.2 cu m/s) Sept. 18.

Period of record: Maximum discharge, 20,200 cfs (572 cu m/s) Apr. 5, 1950, gage height, 15.10 ft (4.602 m), present datum; minimum daily, 420 cfs (11.9 cu m/s) Aug. 30, 1931.

REMARKS.—records fair. Flow regulated by powerplants above station.

REVISIONS (WATER YEARS).—WSP 1387: 1931, 1933-36, 1940-43, 1945-46(M), 1949(M). WSP 1911: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,750	2,960	4,140	10,600	5,170	3,830	7,580	5,790	7,480	2,810	3,500	2,000
2	3,960	2,990	4,200	9,850	4,940	3,780	8,480	5,600	7,240	2,720	3,900	2,100
3	3,820	3,580	3,980	8,780	5,340	3,980	7,260	5,400	7,200	3,130	4,200	2,100
4	3,540	3,790	4,000	9,230	5,500	4,220	7,210	5,650	6,480	3,340	3,800	2,500
5	3,750	3,340	4,090	8,920	5,310	4,690	6,850	5,150	6,820	3,190	3,800	2,600
6	3,510	3,320	4,230	7,750	5,360	4,900	6,310	5,060	6,550	3,310	3,800	2,000
7	3,110	3,510	4,880	7,230	5,260	5,090	6,170	5,090	6,530	3,460	3,800	2,000
8	3,000	3,560	4,420	6,730	4,950	5,100	5,940	4,770	6,760	2,460	3,100	1,700
9	3,360	4,140	4,020	7,100	4,860	4,920	5,700	4,640	6,120	3,170	3,400	1,900
10	2,840	3,690	3,850	6,100	4,760	4,970	5,730	4,870	5,790	3,030	2,970	2,300
11	3,350	3,730	3,910	5,430	4,650	5,060	5,510	4,590	5,770	3,060	2,570	1,800
12	2,300	3,730	4,220	5,220	4,210	5,630	5,640	4,510	5,610	3,070	2,450	1,800
13	2,800	3,810	4,650	5,010	4,370	5,730	5,350	4,130	5,270	2,720	2,290	1,800
14	2,800	5,130	5,200	5,190	4,460	5,670	5,340	4,320	5,100	2,840	2,660	2,000
15	2,000	6,300	5,280	5,550	4,490	5,500	5,090	4,030	4,450	2,530	2,850	2,200
16	2,000	5,990	4,600	5,240	4,290	5,720	5,020	4,180	4,280	2,290	2,190	1,950
17	2,300	5,420	4,250	5,270	3,890	5,960	5,200	4,220	4,440	2,660	2,770	1,670
18	2,000	5,170	3,830	5,180	4,310	6,050	5,240	3,980	3,640	2,350	2,140	1,490
19	2,000	4,840	4,530	5,250	4,000	6,430	4,950	3,600	4,260	2,670	2,190	2,000
20	2,200	4,880	5,120	5,570	4,050	6,700	5,180	3,770	4,600	2,510	2,850	2,020
21	2,400	4,900	5,260	5,490	3,910	6,720	5,240	3,680	4,200	2,530	2,960	1,890
22	2,000	5,100	5,240	5,530	4,100	6,670	6,480	3,940	3,720	2,310	3,000	1,590
23	2,200	4,950	5,310	5,910	4,120	6,320	7,350	4,140	3,550	2,350	3,000	1,750
24	2,500	4,620	5,270	6,130	4,190	6,490	7,320	3,420	3,190	2,380	3,000	2,000
25	2,700	4,630	5,120	5,730	3,900	6,490	7,450	4,130	2,750	2,250	2,500	2,310
26	2,700	4,940	4,980	5,640	4,030	6,740	7,050	4,340	3,680	2,210	2,300	2,140
27	2,700	4,660	4,790	5,580	3,930	6,750	6,950	4,310	3,370	1,910	2,700	1,610
28	2,760	4,710	4,880	5,620	3,800	6,230	6,300	4,850	3,680	2,480	2,900	1,730
29	3,680	4,670	4,620	5,510	-----	6,940	6,250	5,970	2,710	2,660	2,200	1,910
30	2,300	4,370	6,180	5,270	-----	7,160	5,800	6,190	3,120	2,380	2,300	2,260
31	2,780	-----	8,920	5,300	-----	7,370	-----	6,820	-----	2,700	2,400	-----
TOTAL	87,110	131,430	147,970	196,910	126,150	177,810	185,940	145,140	148,360	83,480	90,490	59,120
MEAN	2,810	4,381	4,773	6,352	4,505	5,736	6,198	4,682	4,945	2,693	2,919	1,971
MAX	3,960	6,300	8,920	10,600	5,500	7,370	8,480	6,820	7,480	3,460	4,200	2,600
MIN	2,000	2,960	3,830	5,010	3,800	3,780	4,950	3,420	2,710	1,910	2,140	1,490
CFSM	.77	1.20	1.30	1.73	1.23	1.56	1.69	1.28	1.35	.73	.80	.54
IN.	.88	1.33	1.50	2.00	1.28	1.80	1.89	1.47	1.51	.85	.92	.60
CAL YR 1972	TOTAL 1,199,880	MEAN 3,278	MAX 8,920	MIN 1,150	CFSM .89	IN 12.18						
WTR YR 1973	TOTAL 1,579,910	MEAN 4,329	MAX 10,600	MIN 1,490	CFSM 1.18	IN 16.03						

04177720 Fish Creek at Hamilton, Ind.

LOCATION.--Lat 41°31'55", long 84°54'12", in SE 1/4 SW 1/4 sec.34, T.36 N., R.14 E., Steuben County, on left bank 6 ft (2 m) upstream from bridge on County Road 775 South, 0.5 mile (0.8 km) downstream from Hamilton Lake outlet, and 0.5 mile (0.8 km) southeast of Hamilton.

DRAINAGE AREA.--37.5 sq mi (97.1 sq km).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 876.00 ft (267.005 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 314 cfs (8.89 cu m/s) July 4, gage height, 8.80 ft (2.682 m); minimum daily, 3.4 cfs (0.096 cu m/s) Sept. 21, 22, 24.

Period of record: Maximum discharge, 314 cfs (8.89 cu m/s) July 4, 1973, gage height, 8.80 ft (2.682 m); minimum daily, 0.52 cfs (0.015 cu m/s) Aug. 31, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	22	29	164	33	25	69	28	114	14	29	7.9
2	14	56	33	124	61	38	66	30	83	32	24	7.2
3	13	70	41	95	74	61	61	32	65	152	20	6.5
4	13	61	36	130	65	70	54	30	59	302	16	5.9
5	13	48	33	110	57	75	51	25	66	283	13	5.5
6	9.8	39	45	79	50	77	45	22	92	182	12	5.0
7	9.3	41	42	60	44	73	40	22	139	107	10	4.5
8	8.7	92	39	47	42	69	37	31	114	72	9.5	4.4
9	7.8	85	35	38	36	61	40	34	83	54	10	4.4
10	7.3	69	33	31	31	58	60	40	62	117	13	4.9
11	8.2	60	29	27	28	90	53	50	50	111	12	5.2
12	26	48	36	23	25	137	49	42	46	78	14	4.5
13	25	47	72	21	23	111	45	35	41	57	12	4.3
14	21	163	72	19	23	102	40	30	33	44	10	4.1
15	18	188	63	20	29	110	36	27	25	34	9.5	3.9
16	17	153	54	18	28	87	37	23	20	31	8.2	3.7
17	15	114	45	20	25	124	42	24	18	29	7.7	3.6
18	13	86	39	25	23	128	40	30	16	19	7.3	3.6
19	12	70	35	32	21	116	43	22	15	15	7.1	3.6
20	12	67	36	31	23	115	43	20	13	24	12	3.5
21	12	62	40	28	26	111	41	17	11	29	9.5	3.4
22	14	56	45	49	25	104	74	15	9.6	24	7.7	3.4
23	33	48	48	65	25	93	115	35	8.6	20	7.6	3.5
24	37	42	51	59	23	87	91	48	10	17	11	3.4
25	34	37	53	51	22	92	69	44	9.4	16	11	3.5
26	29	39	53	47	21	123	55	49	9.5	16	11	3.6
27	25	37	50	46	19	109	46	55	11	15	10	3.5
28	25	34	46	47	20	87	37	102	15	13	9.6	3.8
29	28	31	44	42	-----	80	29	174	18	11	8.6	5.0
30	26	29	72	37	-----	76	28	175	16	10	8.6	5.0
31	23	-----	160	32	-----	70	-----	153	-----	25	8.5	-----
TOTAL	566.1	1,994	1,509	1,617	922	2,759	1,536	1,464	1,272.1	1,953	359.4	134.3
MEAN	18.3	66.5	48.7	52.2	32.9	89.0	51.2	7.2	42.4	63.0	11.6	4.48
MAX	37	188	160	164	74	137	115	175	139	302	29	7.9
MIN	7.3	22	29	18	19	25	28	15	8.6	10	7.1	3.4
CFSM	.49	1.77	1.30	1.39	.88	2.37	1.37	1.26	1.13	1.68	.31	.12
IN.	.56	1.98	1.50	1.60	.91	2.74	1.52	1.45	1.26	1.94	.36	.13

CAL YR 1972 TOTAL 9,912.2 MEAN 27.1 MAX 188 MIN 1.3 CFSM .72 IN 9.83
WTR YR 1973 TOTAL 16,085.9 MEAN 44.1 MAX 302 MIN 3.4 CFSM 1.18 IN 15.96

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0200	7.26	193	03-17	1800	6.46	138	06-07	0900	6.54	143
12-31	2100	6.99	174	03-26	0600	6.23	124	07-04	1800	8.80	314
01-04	0900	6.38	133	04-22	2400	6.12	117	07-10	1900	6.26	126
03-12	0600	6.52	141	05-29	1500	7.07	180				

04178000 St. Joseph River near Newville, Ind.

LOCATION.--Lat 41°23'08", long 84°48'06", in SW 1/4 SW 1/4 sec.18, T.5 N., R.1 E., Defiance County, Ohio, on left bank at bridge on Ohio State Highway 249, 3.5 miles (5.6 km) northeast of Newville and 6.5 miles (10.5 km) northwest of Hicksville, Ohio.

DRAINAGE AREA.--610 sq mi (1,580 sq km).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 795.40 ft (242.438 m) above mean sea level. Prior to Oct. 22, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 498 cfs (14.1 cu m/s), 11.09 in/yr (282 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,330 cfs (66.0 cu m/s) Nov. 16, gage height, 11.56 ft (3.523 m); maximum gage height, 11.60 ft (3.536 m) June 2; minimum daily discharge, 45 cfs (1.27 cu m/s) Sept. 24, 25.

Period of record: Maximum discharge, 9,710 cfs (275 cu m/s) Apr. 6, 1950, gage height, 17.05 ft (5.197 m); minimum daily, 14 cfs (0.40 cu m/s) Sept. 10, 16, 1964.

REMARKS.--Records good.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	609	366	571	2,000	555	315	1,300	519	1,860	587	561	88
2	569	808	533	2,060	968	576	1,290	502	1,970	531	345	84
3	468	1,310	523	2,050	1,440	1,050	1,230	540	1,900	1,090	281	78
4	383	1,240	500	2,000	1,470	1,340	1,170	559	1,740	1,420	229	71
5	330	1,090	480	2,000	1,390	1,480	1,070	565	1,880	1,540	193	67
6	294	875	520	1,800	1,240	1,600	930	514	1,640	1,500	164	64
7	263	723	988	1,500	1,010	1,620	813	457	1,430	1,230	147	60
8	251	1,300	915	1,300	823	1,600	721	466	1,310	771	131	59
9	226	1,500	800	1,100	686	1,460	659	595	1,250	534	121	57
10	209	1,470	660	900	540	1,350	873	672	1,070	476	119	55
11	195	1,580	560	600	480	1,570	1,040	787	780	493	125	54
12	470	1,470	512	470	450	1,860	1,140	719	653	496	168	54
13	611	1,240	845	420	400	1,870	1,100	606	1,200	424	160	53
14	400	1,940	920	430	390	1,940	935	493	1,230	344	140	52
15	288	2,260	740	410	360	2,160	763	420	1,260	287	121	49
16	242	2,320	620	350	300	2,110	657	374	1,280	240	107	47
17	219	2,310	560	390	310	2,100	615	344	1,020	215	102	46
18	200	2,260	570	434	330	2,080	611	320	675	201	97	48
19	184	2,120	620	593	363	2,090	697	309	519	181	92	46
20	170	1,860	700	688	369	2,080	747	291	441	174	94	51
21	162	1,520	780	642	374	2,070	738	275	374	195	92	50
22	166	1,270	910	683	363	2,040	895	261	326	208	103	49
23	348	1,130	1,010	1,070	381	1,980	1,290	296	288	202	100	48
24	582	990	1,110	1,180	341	1,910	1,340	443	281	186	98	45
25	670	853	1,210	1,140	335	1,880	1,370	747	260	174	96	45
26	611	756	1,190	1,010	305	2,040	1,310	853	258	164	96	48
27	498	727	1,140	878	287	2,030	1,100	878	350	168	90	48
28	403	725	1,030	870	270	1,920	858	1,030	491	163	88	48
29	383	686	908	843	-----	1,760	690	1,250	631	153	84	48
30	401	624	1,100	736	-----	1,590	582	1,500	672	138	84	54
31	384	-----	1,790	626	-----	1,390	-----	1,670	-----	512	91	-----
TOTAL	11,189	39,323	25,315	31,173	16,530	52,861	28,534	19,255	29,039	14,997	4,519	1,666
MEAN	361	1,311	817	1,006	590	1,705	951	621	968	484	146	55.5
MAX	670	2,320	1,790	2,060	1,470	2,160	1,370	1,670	1,970	1,540	561	88
MIN	162	366	480	350	270	315	582	261	258	138	84	45
CFSM	.59	2.15	1.34	1.65	.97	2.80	1.56	1.02	1.59	.79	.24	.09
IN.	.68	2.40	1.54	1.90	1.01	3.22	1.74	1.17	1.77	.91	.28	.10

CAL YR 1972 TOTAL 200,200 MEAN 547 MAX 2,330 MIN 46 CFSM .90 IN 12.21
WTR YR 1973 TOTAL 274,401 MEAN 752 MAX 2,320 MIN 45 CFSM 1.23 IN 16.73

STREAMS TRIBUTARY TO LAKE ERIE

04178100 St. Joseph River at Newville, Ind.

LOCATION.—Lat 41°22'29", long 85°48'41", in SW 1/4 SW 1/4 sec.28, T.34 N., R.15 E., Dekalb County, at bridge on county road, 0.6 mile (1.0 km) downstream from Ohio-Indiana state line, 0.8 mile (1.3 km) upstream from Christoffel ditch, 2.2 miles (3.5 km) downstream from gaging station on Ohio State Highway 249, and 2.5 miles (4.0 km) northeast of Newville.

DRAINAGE AREA.—615 sq mi (1,593 sq km).

PERIOD OF RECORD.—CHEMICAL ANALYSES: July 1969 to June 1973 (discontinued).

REMARKS.—Records of discharge are from St. Joseph River near Newville, Ind. (See sta 0417800), drainage area, 609 sq mi (1,577 sq km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
NOV. 14...	1200	2080	6.5	1.5	400	7.8	40	11.4	93	25000	.20	.18
JAN. 17...	0800	390	--	--	580	7.2	15	--	--	--	.01	.02
17...	0800	--	1.0	7.0	--	--	--	9.2	65	3400	--	--
MAR. 21...	0900	2130	3.3	-1.0	450	6.9	25	14.8	110	2050	.02	.04
MAY 22...	1530	274	15.0	16.5	550	7.6	40	6.6	65	15200	.32	.02

DATE	DIS- SOLVED NITRATE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED AMMONIA (NH4) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)
NOV. 14...	3.3	2.4	.41	520	273	247	1390	.34	.26	15	.5
JAN. 17...	1.9	.78	.08	416	16	400	421	.54	.01	8.4	.0
17...	--	--	--	--	--	--	--	--	--	--	--
MAR. 21...	2.3	.93	.12	326	68	258	1480	.35	.03	10	.1
MAY 22...	.70	.18	.11	480	90	390	289	.53	.41	3.1	.0

04179000 St. Joseph River at Cedarville, Ind.

LOCATION.--Lat 41°11'46", long 85°01'27", in J. Hackley Reserve, T.32 N., R.13 E., Allen County, on left bank 700 ft (213 m) upstream from highway bridge, 0.4 mile (0.6 km) south of Cedarville, 0.5 mile (0.8 km) upstream from Cedar Creek, and 0.6 mile (1.0 km) downstream from Cedarville Dam.

DRAINAGE AREA.--763 sq mi (1,976 sq km).

PERIOD OF RECORD.--January 1931 to May 1932, October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 757.94 ft (231.020 m) above mean sea level. Jan. 1, 1931, to May 31, 1932, non-recording gage on downstream side of highway bridge 700 ft (213 m) downstream from present site at datum approximately 20 ft (6 m) lower.

AVERAGE DISCHARGE.--18 years (1955 to current year), 593 cfs (16.79 cu m/s), 10.55 in/yr (268 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 2,760 cfs (78.2 cu m/s) Nov. 15, maximum gage height, 12.51 ft (3.813 m) Nov. 14; minimum daily discharge, 35 cfs (0.991 cu m/s) Sept. 27.

Period of record: Maximum discharge, 10,100 cfs (286 cu m/s) May 1, 1956, gage height, 18.07 ft (5.508 m), from floodmarks; minimum daily, 1.6 cfs (0.045 cu m/s) May 22, 27, 1958.

REMARKS.--Records good. Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir. Stage-discharge relation affected at times by backwater from Cedar Creek.

REVISIONS (WATER YEARS).--WSP 1912: 1956. WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	840	564	726	2,310	705	420	1,450	747	2,060	654	1,280	124
2	796	875	690	2,120	1,490	711	1,480	717	2,280	579	693	87
3	663	1,410	663	2,260	1,900	1,090	1,330	672	2,500	1,540	435	85
4	642	1,460	612	2,550	1,790	1,520	1,280	660	2,310	2,060	373	99
5	750	1,200	735	2,570	1,700	750	1,220	630	2,200	1,870	265	94
6	555	1,240	965	2,250	1,520	1,940	1,110	606	2,490	1,900	205	73
7	439	1,110	1,330	1,800	1,290	1,840	1,000	525	1,930	1,740	247	66
8	421	1,580	1,210	1,600	1,030	1,770	868	804	1,580	1,060	191	66
9	394	1,700	1,060	1,200	928	1,720	744	936	1,410	648	156	66
10	305	1,620	928	1,000	654	1,680	980	753	1,410	675	181	65
11	261	1,920	666	640	564	2,260	1,060	900	920	510	148	63
12	702	1,880	690	540	534	2,290	1,200	844	852	534	191	49
13	695	1,600	1,100	546	504	2,170	1,230	735	1,130	486	207	47
14	844	2,750	1,310	552	531	2,470	1,080	567	1,650	428	223	52
15	546	2,760	1,180	570	543	2,730	924	507	1,260	311	203	52
16	423	2,700	1,000	501	403	2,580	768	435	1,640	343	111	52
17	424	2,680	850	453	315	2,670	796	435	1,260	271	141	58
18	301	2,320	800	531	424	2,650	741	418	820	237	160	49
19	311	2,480	824	675	468	2,620	876	403	540	241	257	44
20	247	2,250	876	808	462	2,590	980	394	492	237	364	47
21	215	1,980	948	732	501	2,460	864	349	468	203	430	48
22	253	1,500	1,250	1,040	449	2,380	1,090	338	335	235	130	48
23	702	1,300	1,160	1,280	507	2,290	1,370	349	367	275	211	49
24	940	1,200	1,370	1,340	498	2,160	1,380	504	424	237	166	49
25	892	1,120	1,510	1,300	394	2,140	1,320	552	385	235	109	75
26	828	916	1,470	1,240	429	2,410	1,370	777	447	189	117	48
27	726	1,000	1,310	1,140	370	2,360	1,220	888	549	181	130	35
28	534	980	1,280	1,160	391	2,200	996	972	717	193	116	40
29	705	780	1,100	1,040	-----	2,080	820	1,110	714	191	104	65
30	627	820	1,420	952	-----	1,810	717	1,450	657	197	88	92
31	588	-----	2,200	750	-----	1,680	-----	1,840	-----	960	130	-----
TOTAL	17,569	47,695	33,233	37,450	21,294	62,441	32,264	21,817	35,797	19,420	7,762	1,887
MEAN	567	1,590	1,072	1,208	761	2,014	1,075	704	1,193	626	250	62.9
MAX	940	2,760	2,200	2,570	1,900	2,730	1,480	1,840	2,500	2,060	1,280	124
MIN	215	564	612	453	315	420	717	338	335	181	88	35
CFSM	.74	2.08	1.41	1.58	1.00	2.64	1.41	.92	1.56	.82	.33	.08
IN.	.86	2.32	1.62	1.83	1.04	3.04	1.57	1.06	1.75	.95	.38	.09

CAL YR 1972 TOTAL 272,953 MEAN 746 MAX 5,510 MIN 29 CFSM .98 IN 13.31
WTR YR 1973 TOTAL 338,629 MEAN 928 MAX 2,760 MIN 35 CFSM 1.22 IN 16.51

STREAMS TRIBUTARY TO LAKE ERIE

04179500 Cedar Creek at Auburn, Ind.

LOCATION.--Lat 41°21'57", long 85°03'08", in NE 1/4 NW 1/4 sec.32, T.34 N., R.13 E., DeKalb County, on right bank 15 ft (5 m) downstream from Ninth Street bridge in Auburn, and 2 miles (3 km) upstream from John Diehl ditch.

DRAINAGE AREA.--87.3 sq mi (226.1 sq km).

PERIOD OF RECORD.--July 1943 to September 1973 (discontinued as a continuous-record station; converted to a crest-stage and low-flow partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 847.14 ft (258.208 m) above mean sea level (City of Auburn bench mark). Prior to Aug. 28, 1946, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years, 68.5 cfs (1.940 cu m/s), 10.66 in./yr (271 mm/yr).

EXTREMES.--Current year: Maximum discharge, 702 cfs (19.9 cu m/s) Nov. 14, gage height, 7.18 ft (2.188 m); minimum daily, 5.2 cfs (0.15 cu m/s) Sept. 23.

Period of record: Maximum discharge, 1,520 cfs (43.0 cu m/s) Apr. 5, 1950, gage height, 9.90 ft (3.018 m); minimum daily, 0.7 cfs (0.020 cu m/s) Nov. 8, 1953.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1337: 1944-45(M), 1947-49, 1950(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	87	82	442	69	71	161	68	165	28	73	13
2	97	352	77	307	227	121	149	74	112	39	48	11
3	73	369	85	232	274	209	130	83	88	250	35	9.7
4	76	248	81	385	178	195	115	75	150	269	27	9.7
5	91	177	76	266	146	229	103	65	323	137	22	9.3
6	82	131	197	173	124	222	92	58	302	82	19	8.6
7	71	146	157	120	109	186	83	56	307	59	17	8.2
8	61	396	106	96	98	179	76	65	191	47	15	7.6
9	53	293	89	81	84	131	75	69	123	40	19	7.9
10	47	215	79	66	74	135	96	71	91	43	16	8.2
11	51	194	70	61	66	348	84	84	75	34	14	7.6
12	323	147	77	56	60	393	80	68	75	29	14	7.3
13	277	158	283	50	55	248	78	57	72	26	13	7.3
14	179	647	216	47	58	263	71	52	61	23	13	6.6
15	119	612	142	46	76	319	67	49	52	20	12	6.3
16	99	436	106	44	65	210	67	47	48	19	11	5.6
17	83	329	88	46	66	335	81	45	45	18	11	6.6
18	69	253	79	62	58	354	82	42	42	16	28	6.6
19	60	202	74	84	55	349	96	41	39	15	19	6.3
20	54	206	80	75	60	338	101	40	36	28	37	6.3
21	50	202	107	64	83	82	92	38	33	37	22	6.0
22	57	162	140	135	74	144	246	37	30	29	17	5.4
23	216	128	140	226	67	228	366	44	30	25	15	5.2
24	198	109	152	135	58	214	238	50	34	24	18	5.6
25	151	101	170	99	53	246	167	47	30	22	15	10
26	117	101	151	100	51	230	122	46	32	21	14	7.6
27	96	103	130	107	47	275	98	48	36	19	13	5.3
28	87	99	110	120	51	199	82	123	35	16	12	5.3
29	116	89	105	97	-----	165	71	259	36	15	11	7.6
30	111	84	319	79	-----	167	68	275	32	15	13	6.0
31	94	-----	590	69	-----	146	-----	255	-----	93	15	-----
TOTAL	3,376	6,776	4,358	3,970	2,486	6,931	3,437	2,431	2,725	1,538	628	223.7
MEAN	109	226	141	128	88.8	224	115	78.4	90.8	49.6	20.3	7.46
MAX	323	647	590	442	274	393	366	275	323	269	73	13
MIN	47	84	70	44	47	71	67	37	30	15	11	5.2
CFSM	1.25	2.59	1.62	1.47	1.02	2.57	1.32	.90	1.04	.57	.23	.09
IN.	1.44	2.89	1.86	1.69	1.06	2.95	1.46	1.04	1.16	.66	.27	.10

CAL YR 1972 TOTAL 35,360.2 MEAN 96.6 MAX 846 MIN 2.5 CFSM 1.11 IN 15.07
WTR YR 1973 TOTAL 38,879.7 MEAN 107 MAX 647 MIN 5.2 CFSM 1.23 IN 16.57

PEAK DISCHARGE (BASE, 700 CFS).--Nov. 14 (1915) 702 cfs (7.18 ft).

04180000 Cedar Creek near Cedarville, Ind.

LOCATION.--Lat 41°13'08", long 85°04'35", in NW 1/4 NW 1/4 sec.19, T.32 N., R.13 E., Allen County, on left bank at downstream side of bridge on State Highway 427, 3 miles (5 km) northwest of Cedarville, 5.8 miles (9.3 km) upstream from mouth, and 10 miles (16 km) south of Auburn.

DRAINAGE AREA.--270 sq mi (699 sq km).

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.09 ft (237.771 m) above mean sea level. Prior to Nov. 4, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 234 cfs (6.63 cu m/s), 11.77 in/yr (299 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,410 cfs (68.2 cu m/s) Nov. 15, gage height, 7.42 ft (2.262 m); minimum daily, 36 cfs (1.02 cu m/s) Sept. 23, 24.

Period of record: Maximum discharge, 4,870 cfs (138 cu m/s) Apr. 5, 1950, gage height, 11.67 ft (3.557 m); minimum daily, 13 cfs (0.37 cu m/s) Oct. 3, 1949.

REMARKS.--Records good.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	300	291	1,730	240	233	567	300	455	132	540	85
2	336	895	276	987	623	406	591	279	337	123	278	68
3	272	1,440	294	675	859	611	507	354	271	363	190	62
4	277	895	288	1,150	567	635	441	286	314	805	146	58
5	507	607	264	927	445	627	396	243	1,410	474	119	58
6	389	455	615	571	382	691	357	220	1,190	295	104	56
7	306	467	619	413	336	567	319	209	1,190	217	95	53
8	253	1,210	424	336	303	627	291	262	739	178	87	52
9	213	1,030	340	270	240	471	273	297	479	151	81	49
10	188	707	280	240	220	475	315	251	350	171	95	49
11	175	787	240	220	200	979	297	278	277	150	87	49
12	687	571	240	200	180	1,520	294	244	335	124	104	46
13	915	555	851	180	170	907	368	213	356	110	97	44
14	591	1,820	811	173	180	867	303	197	258	101	88	43
15	410	2,300	523	168	235	1,240	264	188	213	93	81	43
16	326	1,600	360	160	200	779	255	180	232	87	73	41
17	282	991	310	168	190	1,020	309	170	208	83	69	38
18	238	731	270	210	170	1,290	303	162	188	78	81	41
19	208	583	258	288	170	1,210	396	166	166	75	192	40
20	185	587	285	282	190	1,140	417	165	148	85	496	40
21	175	595	375	223	233	1,040	354	157	135	116	485	37
22	175	507	495	427	228	939	783	158	124	103	265	37
23	515	427	491	799	213	831	1,480	169	119	91	171	36
24	695	375	499	535	188	751	903	187	251	91	140	36
25	523	347	599	375	173	783	583	184	183	99	119	37
26	406	354	531	357	173	1,250	431	184	161	88	102	63
27	326	371	467	368	158	975	350	183	245	85	89	47
28	282	364	399	420	165	655	294	261	200	77	82	43
29	361	322	371	368	-----	531	253	494	201	71	74	50
30	396	297	919	288	-----	543	270	589	156	70	72	96
31	322	-----	1,850	248	-----	495	-----	617	-----	559	83	-----
TOTAL	11,370	22,490	14,835	13,756	7,631	25,088	12,964	7,847	10,891	5,345	4,785	1,497
MEAN	367	750	479	444	273	809	432	253	363	172	154	49.9
MAX	915	2,300	1,850	1,730	859	1,520	1,480	617	1,410	805	540	96
MIN	175	297	240	160	158	233	253	157	119	70	69	36
CFSM	1.36	2.78	1.77	1.64	1.01	3.00	1.60	.94	1.34	.64	.57	.18
IN.	1.57	3.10	2.04	1.90	1.05	3.46	1.79	1.08	1.50	.74	.66	.21

CAL YR 1972 TOTAL 114,734 MEAN 313 MAX 2,400 MIN 33 CFSM 1.16 IN 15.81
WTR YR 1973 TOTAL 138,499 MEAN 379 MAX 2,300 MIN 36 CFSM 1.40 IN 19.08

PEAK DISCHARGE (BASE, 2,000 CFS).--Nov. 15 (0500) 2,410 cfs (7.42 ft); Dec. 31 (2215) 2,040 cfs (6.68 ft).

STREAMS TRIBUTARY TO LAKE ERIE

04J1050 St. Marys River near Wilshire, Ohio

LOCATION.—Lat 40°45'07", long 84°47'36", in SW 1/4 NE 1/4 sec.30, T.3 S., R.1 E., First principal meridian, at bridge on New York, Chicago, and St. Louis Railroad at northeast edge of Wilshire, and 1 mile (2 km) upstream from Ohio-Indiana state line.

DRAINAGE AREA.—435 sq mi (1,127 sq km).

PERIOD OF RECORD.—CHEMICAL ANALYSES: July 1969 to June 1973 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
OCT. 11...	1515	15.0	16.5	595	8.1	25	8.6	85	24000	.17	.04
DEC. 13...	1200	--	--	--	--	35	--	--	--	.03	.10
13...	1200	.5	-5.0	340	7.8	--	12.5	87	30500	--	--
FEB. 21...	1130	.5	.0	850	8.0	15	1.1	86	2150	.12	.00
APR. 18...	1050	11.5	14.0	440	7.6	100	9.2	84	20600	.03	.10
JUNE 19...	1430	25.5	30.5	700	7.6	70	6.6	80	8600	.14	.07

DATE	DIS- SOLVED NITRATE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED AMMONIA (NH4) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)
OCT. 11...	2.9	1.3	.35	474	90	384	.52	--	--	--
DEC. 13...	1.6	1.5	.31	344	134	210	.29	.04	7.1	.3
13...	--	--	--	--	--	--	--	--	--	--
FEB. 21...	3.6	.32	.28	528	36	492	.67	.15	16	.0
APR. 18...	3.7	1.1	.28	510	215	295	.40	.04	16	.3
JUNE 19...	2.9	1.6	.27	572	118	454	.62	.18	13	.2

04181500 St. Marys River at Decatur, Ind.

LOCATION.--Lat 40°50'55", long 84°56'16", in SW 1/4 SW 1/4 sec.27, T.28 N., R.14 E., Adams County, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 27, 0.5 mile (0.8 km) upstream from Holthouse ditch, and 1.3 miles (2.1 km) north of Decatur.

DRAINAGE AREA.--621 sq mi (1,608 sq km).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307. Gage-height records collected at site 0.5 mile (0.8 km) upstream January 1932 to November 1954, and at present site thereafter are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft (231.782 m) above mean sea level. Prior to July 27, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 491 cfs (13.90 cu m/s), 10.74 in/yr (273 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,220 cfs (120 cu m/s) Mar. 16, gage height, 19.04 ft (5.803 m), from recorded range in stage; minimum daily, 24 cfs (0.68 cu m/s) Sept. 30.

Period of record: Maximum discharge, 11,300 cfs (320 cu m/s) Feb. 10, 11, 1959; maximum gage height, 24.22 ft (7.382 m) Feb. 10, 1959 (ice jam); minimum daily discharge, 5.4 cfs (0.15 cu m/s) Oct. 18, 1960.

REMARKS.--Records good. Flow regulated by Grand Lake. Slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 1174: 1948. WSP 1337: 1947. WSP 1627: 1950. WSP 1912: 1955, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,210	336	580	1,390	726	125	1,630	318	221	384	441	57
2	786	2,560	512	935	1,780	115	1,400	259	193	493	377	52
3	574	3,380	440	924	1,750	229	1,220	239	162	1,300	283	48
4	783	3,030	379	1,900	1,150	401	1,120	214	163	1,280	175	45
5	1,530	2,450	425	1,650	1,030	830	1,110	193	1,100	777	115	42
6	904	2,170	2,380	900	997	918	902	178	2,110	735	86	40
7	487	2,080	3,040	711	880	821	735	167	2,350	832	70	38
8	360	2,720	2,550	620	702	1,000	671	169	1,920	945	60	36
9	283	2,680	2,130	530	500	930	621	196	2,010	582	52	34
10	206	2,110	2,150	420	387	1,500	588	163	1,860	440	46	33
11	148	1,810	1,810	360	292	2,700	498	228	1,330	255	52	32
12	262	1,730	1,380	300	203	3,800	669	291	1,210	155	72	31
13	260	1,690	2,290	250	199	3,600	1,790	328	1,240	109	121	30
14	181	3,500	2,290	210	206	3,500	1,310	368	451	99	300	30
15	131	4,000	1,650	182	201	3,900	1,030	350	269	87	1,070	28
16	163	3,780	1,390	155	167	4,200	1,110	272	220	72	1,290	26
17	228	3,340	1,100	139	184	4,100	1,790	199	189	59	1,510	27
18	184	2,960	1,000	160	211	4,000	1,630	166	162	53	1,690	27
19	133	2,450	950	215	231	3,900	1,620	169	126	49	1,600	26
20	102	1,990	880	203	259	3,800	1,290	179	106	60	1,310	26
21	85	1,560	900	133	270	3,700	913	164	96	114	1,130	26
22	80	1,100	960	368	199	3,300	1,100	222	88	814	606	26
23	151	900	1,030	375	232	2,300	1,680	289	78	1,280	451	25
24	194	303	1,130	618	181	1,600	1,310	291	77	896	416	26
25	133	731	1,260	536	155	1,200	1,360	384	73	854	323	26
26	103	739	1,170	627	149	2,400	1,430	834	76	794	204	28
27	86	898	1,050	755	88	1,530	1,220	444	111	602	138	25
28	81	801	885	913	116	1,020	874	411	224	408	102	26
29	148	651	830	1,160	-----	997	562	366	629	266	85	26
30	203	596	1,480	733	-----	1,510	409	281	417	174	74	24
31	160	-----	1,910	656	-----	1,350	-----	239	-----	379	66	-----
TOTAL	10,339	59,545	41,931	19,628	13,445	65,276	33,592	8,571	19,261	15,347	14,315	966
MEAN	334	1,985	1,353	633	480	2,106	1,120	276	642	495	462	32.2
MAX	1,530	4,000	3,040	1,900	1,780	4,200	1,790	834	2,350	1,300	1,690	57
MIN	80	336	375	133	88	115	409	163	73	49	46	24
CFSM	.54	3.20	2.18	1.02	.77	3.39	1.80	.44	1.03	.80	.74	.05
IN.	.62	3.57	2.51	1.18	.81	3.91	2.01	.51	1.15	.92	.86	.06

CAL YR 1972, TOTAL 300,675 MEAN 822 MAX 7,280 MIN 18 CFSM 1.32 IN 18.01
WTR YR 1973, TOTAL 302,216 MEAN 828 MAX 4,200 MIN 24 CFSM 1.33 IN 18.10

PEAK DISCHARGE (BASE, 2,900 CFS)

NOTE.--No gage-height record Mar. 8-26.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0800	17.35	3,440	12-07	0600	16.38	3,080
11-15	1100	18.64	4,020	03-16	unknown	19.04	4,220

STREAMS TRIBUTARY TO LAKE ERIE

04182000 St. Marys River near Fort Wayne, Ind.

LOCATION.--Lat 40°59'16", long 85°06'03", in A. LaFontaine Reserve, T.29 N., R.12 E., Allen County, on left bank 130 ft (40 m) downstream from highway bridge on Anthony Boulevard, 5 miles (8 km) south of Fort Wayne, and 10.8 miles (17.4 km) upstream from confluence with St. Joseph River.

DRAINAGE AREA.--762 sq mi (1,974 sq km).

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1307. Fragmentary gage-height records for period November 1924 to October 1927 are available in the District office.

GAGE.--Water-stage recorder. Datum of gage is 748.97 ft (228.286 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Apr. 13, 1939, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.--43 years, 561 cfs (15.89 cu m/s), 10.00 in/yr (254 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,170 cfs (146 cu m/s) Mar. 16, gage height, 12.04 ft (3.670 m); minimum daily, 31 cfs (0.88 cu m/s) Sept. 18, 24, 28, 29.

Period of record: Maximum discharge, 13,600 cfs (385 cu m/s) Feb. 11, 1959; maximum gage height, 19.42 ft (5.919 m) Feb. 11, 1959 (ice jam); minimum daily discharge, 3.4 cfs (0.10 cu m/s) Oct. 19, 1934.

REMARKS.--Records fair. The flow is sometimes regulated by Grand Lake. There is slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 974: 1942. WSP 1337: 1933, 1947. WSP 1912: 1954, 1955, 1960, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,400	413	661	2,150	788	138	2,040	375	243	405	500	64
2	900	2,600	601	1,230	2,330	147	1,970	313	223	460	403	57
3	650	4,280	510	1,050	2,700	249	1,560	260	190	1,730	342	54
4	1,000	4,160	430	2,230	1,740	454	1,370	251	174	1,950	243	50
5	1,800	3,530	398	2,340	1,240	832	1,330	225	633	1,110	152	728
6	1,300	2,860	2,650	1,270	1,190	1,270	1,140	205	2,310	796	106	45
7	800	2,690	3,870	940	1,080	980	896	190	3,030	860	81	43
8	600	3,560	3,650	840	892	1,220	768	203	2,510	920	69	40
9	400	3,650	2,850	700	664	1,080	706	273	2,340	816	60	40
10	300	3,090	2,650	540	430	2,050	685	225	2,330	573	54	38
11	230	2,290	2,560	450	320	4,070	608	203	1,750	355	60	37
12	320	2,150	1,900	350	240	4,620	636	280	1,660	218	94	36
13	320	2,150	2,990	300	240	4,330	2,000	315	1,870	136	86	36
14	250	4,830	3,210	250	250	4,280	1,900	350	776	106	162	35
15	200	5,100	2,350	230	240	4,960	1,230	366	372	97	776	35
16	230	4,970	1,770	200	210	5,110	1,240	322	280	84	1,420	33
17	280	4,560	1,500	190	220	4,990	1,900	249	238	73	1,600	32
18	250	4,040	1,300	271	240	4,850	2,080	192	199	62	1,920	31
19	190	3,500	1,200	326	262	4,870	2,200	177	156	56	1,920	32
20	150	2,870	1,150	331	289	4,680	1,830	190	123	59	1,620	32
21	110	2,180	1,150	249	333	4,250	1,230	183	109	70	1,370	32
22	110	1,490	1,200	393	240	3,610	1,500	190	103	348	820	32
23	180	1,110	1,260	1,130	270	2,440	2,190	269	98	1,430	496	32
24	250	948	1,340	936	273	1,590	1,770	304	98	1,100	430	31
25	200	856	1,540	619	214	1,470	1,510	284	91	920	368	32
26	150	848	1,460	703	181	2,930	1,640	792	167	888	265	33
27	110	1,040	1,310	884	110	2,500	1,510	570	383	732	168	33
28	110	1,000	1,080	1,060	130	1,400	1,110	421	326	503	118	31
29	170	812	988	1,440	-----	1,150	740	405	682	342	94	31
30	280	685	2,040	1,040	-----	1,640	496	348	552	232	81	32
31	230	-----	2,870	764	-----	1,730	-----	265	-----	217	74	-----
TOTAL	13,470	78,362	54,438	25,406	17,316	79,890	41,785	9,195	24,016	17,648	15,952	1,817
MEAN	435	2,612	1,756	820	618	2,577	1,393	297	801	569	515	60.6
MAX	1,800	5,100	3,870	2,340	2,700	5,110	2,200	792	3,030	1,950	1,920	728
MIN	110	413	398	190	110	138	496	177	91	56	54	31
CFSM	.57	3.43	2.30	1.08	.81	3.38	1.83	.39	1.05	.75	.68	.08
IN.	.66	3.83	2.66	1.24	.85	3.90	2.04	.45	1.17	.86	.78	.09

CAL YR 1972 TOTAL 372,514 MEAN 1.018 MAX 8.120 MIN 23 CFSM 1.34 IN 18.19
WTR YR 1973 TOTAL 379,295 MEAN 1.039 MAX 5.110 MIN 31 CFSM 1.36 IN 18.52

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	2000	10.84	4,340	03-16	0300	12.04	5,170
11-14	2200	11.98	5,130				

04182590 Harbor ditch at Fort Wayne, Ind.

LOCATION.--Lat 41°00'27", long 85°10'58", in NE 1/4 SW 1/4 sec.33, T.30 N., R.12 E., Allen County, on left bank 50 ft (15 m) upstream from bridge on State Highway 3 at Fort Wayne city limits and 3.2 miles (5.1 km) upstream from mouth. The stream name changes to Fairfield ditch 0.7 mile (1.1 km) downstream at bridge on Lower Huntington Road.

DRAINAGE AREA.--21.9 sq mi (56.7 sq km).

PERIOD OF RECORD.--May 1964 to current year. Discharge measurements available October 1960 to May 1964 and gage heights January 1961 to May 1964 at site 0.7 mile (1.1 km) downstream.

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft (230.734 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 18.1 cfs (0.513 cu m/s), 11.22 in/yr (285 mm/yr).

EXTREMES.--Current year: Maximum discharge, 598 cfs (16.9 cu m/s) Nov. 14, gage height, 10.70 ft (3.261 m); minimum daily, 0.13 cfs (0.004 cu m/s) Sept. 27.

Period of record: Maximum discharge, 728 cfs (20.6 cu m/s) Feb. 20, 1971, gage height, 11.55 ft (3.520 m); minimum daily, 0.10 cfs (0.003 cu m/s) Oct. 25-26, Oct. 31 to Nov. 3, Nov. 6, 8-10, 12-14, 1964, Jan. 28 to Feb. 3, Aug. 8, and Sept. 19, 1971.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	40	17	32	9.2	10	48	7.4	6.1	6.0	2.5	.45
2	20	310	15	18	206	14	50	7.2	5.0	43	1.8	.30
3	15	77	14	25	106	32	34	7.4	5.8	20	1.4	.25
4	70	41	14	46	48	35	26	6.4	14	15	1.2	.24
5	40	31	16	22	36	49	13	5.8	20	11	1.0	.23
6	30	24	130	14	28	38	14	5.2	43	8.6	.90	.22
7	15	63	35	9.0	22	33	12	9.0	38	6.3	.74	.21
8	11	116	22	6.5	16	27	12	15	18	5.0	.68	.20
9	8.0	41	18	5.5	14	30	14	14	15	3.5	.55	1.0
10	6.5	31	17	4.5	11	69	12	9.9	13	4.3	.65	.30
11	80	34	14	4.0	9.0	322	10	13	7.3	3.7	20	.24
12	40	26	43	3.5	8.0	103	22	7.9	18	3.2	2.9	.20
13	20	74	124	4.0	7.6	43	29	6.8	16	2.8	.98	.19
14	11	507	39	6.1	10	88	25	7.4	9.3	2.7	5.0	.70
15	12	123	25	6.0	11	59	17	7.3	8.1	2.6	1.7	.25
16	10	52	19	6.1	8.0	35	40	6.9	6.3	2.3	.80	.17
17	9.8	33	15	5.8	6.0	133	25	7.6	6.1	2.0	.50	.25
18	8.4	25	14	7.0	8.0	135	56	7.6	5.0	1.7	.50	.20
19	7.0	26	17	9.6	10	116	37	10	4.2	1.5	.32	.18
20	6.0	42	32	7.8	18	92	30	7.3	3.8	20	12	.16
21	5.2	29	32	9.4	20	59	23	6.3	3.8	5.4	2.0	.16
22	20	24	30	32	18	48	80	6.3	3.5	7.0	.65	.15
23	32	20	27	35	14	38	36	6.1	3.5	3.5	.40	.15
24	26	18	29	16	9.1	35	22	4.0	5.8	6.0	2.4	.14
25	15	18	27	13	11	109	16	4.9	17	3.0	.80	.20
26	10	25	23	17	10	104	13	4.7	48	9.0	.40	.15
27	14	25	20	27	11	40	11	5.0	35	4.0	.32	.13
28	17	23	18	34	9.1	26	9.2	5.7	22	2.9	.28	1.5
29	21	20	29	26	-----	24	8.4	9.9	16	2.0	.26	.70
30	17	18	128	17	-----	26	8.0	12	10	3.0	.24	.45
31	14	-----	137	11	-----	30	-----	7.9	-----	3.5	1.0	-----
TOTAL	645.9	1.936	1,140	479.8	694.0	2,002	752.6	241.9	426.6	214.5	64.87	9.67
MEAN	20.8	64.5	36.8	15.5	24.8	64.6	25.1	7.80	14.2	6.92	2.09	.32
MAX	80	507	137	46	206	322	80	15	48	43	20	1.5
MIN	5.2	18	14	3.5	6.0	10	8.0	4.0	3.5	1.5	.24	.13
CFSM	.95	2.95	1.68	.71	1.13	2.95	1.15	.36	.65	.32	.10	.01
IN.	1.10	3.29	1.94	.82	1.18	3.40	1.28	.41	.72	.36	.11	.02

CAL YR 1972 TOTAL 8,842.22 MEAN 24.2 MAX 507 MIN .20
WTR YR 1973 TOTAL 8,607.84 MEAN 23.6 MAX 507 MIN .13

PEAK DISCHARGE (BASE, 250 CFS)

NOTE.--No gage-height record June 26 to Aug. 8, and Sept. 14-30.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	unknown	8.55	374	02-02	1200	7.38	282
11-14	0630	10.70	598	03-11	1130	9.92	502

STREAMS TRIBUTARY TO LAKE ERIE

04183000 Maumee River at New Haven, Ind.

LOCATION.—Lat 41°05'06", long 85°01'20", in SE 1/4 NE 1/4 sec.2, T.30 N., R.13 E., Allen County, on left bank 600 ft (183 m) upstream from bridge on Landin Road, 1,400 ft (427 m) upstream from the Wabash Railroad bridge, 1.1 miles (1.8 km) north-west of New Haven, 2.8 miles (4.5 km) upstream from Sixmile Creek.

DRAINAGE AREA.—1,967 sq mi (5,095 sq km).

PERIOD OF RECORD.—December 1946 to September 1956 (high-water records only), October 1956 to current year.

GAGE.—Water-stage recorder. Datum of gage is 724.51 ft (220.831 m) above mean sea level. Prior to Sept. 7, 1956, nonrecording gage and Sept. 7, 1956, to Sept. 14, 1965, water-stage recorder at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.—17 years (1956-73), 1,546 cfs (43.8 cu m/s), 10.67 in/yr (271 mm/yr).

EXTREMES.—Current year: Maximum discharge, 11,100 cfs (314 cu m/s) Nov. 15, gage height, 16.83 ft (5.130 m); minimum daily, 116 cfs (3.28 cu m/s) Sept. 20.

Period of record: Maximum discharge, 19,100 cfs (541 cu m/s) Feb. 16, 1950, gage height, 21.4 ft (6.523 m) at site then in use; minimum daily, 48 cfs (1.36 cu m/s) Oct. 6, 13, 1963.

REMARKS.—Records good. Flow regulated by hydro-powerplant on the St. Joseph River 10.3 miles (16.6 km) upstream from station. Flow slightly regulated by upstream reservoirs.

REVISIONS.—WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,330	1,440	1,860	7,000	1,890	755	4,450	1,600	2,960	1,420	2,420	315
2	2,500	4,210	1,770	5,100	4,960	1,060	4,700	1,500	2,950	1,350	1,620	259
3	1,900	7,100	1,520	4,300	6,880	2,170	3,960	1,450	3,120	3,620	1,120	240
4	2,130	6,950	1,640	6,690	5,010	2,970	3,570	1,400	3,310	6,040	865	187
5	3,340	5,770	1,350	7,020	3,900	3,540	3,250	1,300	3,950	4,180	691	153
6	2,930	4,560	3,460	5,010	3,500	4,310	2,970	1,200	6,650	3,210	480	176
7	1,820	4,380	6,010	3,520	3,090	3,810	2,471	1,150	7,700	2,980	432	171
8	1,330	6,520	5,480	2,780	2,610	3,890	2,200	1,250	5,800	2,590	400	181
9	1,110	6,740	4,460	2,400	2,110	3,660	2,020	1,930	4,550	1,870	278	171
10	931	5,830	3,940	1,800	1,710	4,850	2,100	1,490	4,340	1,570	360	145
11	839	5,470	3,500	1,500	1,250	9,380	2,130	1,430	3,470	1,300	700	171
12	2,360	4,900	3,150	1,280	1,050	9,920	2,390	1,670	3,080	869	736	168
13	2,630	4,540	5,470	1,160	1,030	8,770	3,600	1,440	3,960	869	476	199
14	2,140	9,710	5,770	1,060	1,100	8,730	3,790	1,340	2,920	702	533	153
15	1,270	11,000	4,610	1,040	1,120	9,960	2,760	1,160	2,190	583	920	118
16	1,220	10,400	3,440	952	1,020	9,730	2,930	1,090	1,960	502	1,440	125
17	864	9,070	2,580	863	610	10,100	3,370	896	2,030	527	1,640	218
18	970	7,790	2,260	921	783	10,400	3,630	852	1,510	371	2,140	155
19	736	6,730	2,480	1,200	930	10,300	4,200	901	1,070	472	2,370	128
20	710	6,240	2,620	1,450	1,040	10,000	3,800	813	765	485	2,960	116
21	584	5,210	2,900	1,320	1,140	9,410	3,100	735	751	422	2,370	120
22	634	3,970	3,330	2,060	1,100	8,460	4,100	734	698	481	1,330	165
23	1,400	3,420	3,330	3,690	946	7,050	6,000	781	453	1,480	872	117
24	2,230	2,820	3,490	3,440	1,070	5,470	5,000	942	1,180	1,590	867	144
25	1,830	2,620	4,050	2,630	887	5,100	4,000	1,080	708	1,240	649	168
26	1,530	2,430	3,800	2,550	794	7,450	3,950	1,490	1,580	1,180	532	251
27	1,460	2,510	3,500	2,600	771	7,260	3,650	2,010	2,430	1,020	459	249
28	1,210	2,700	3,100	2,810	693	5,150	2,900	1,820	1,930	721	339	120
29	1,290	2,210	2,800	3,080	-----	4,260	2,400	2,200	2,320	720	259	150
30	1,520	1,990	4,450	2,630	-----	4,200	1,800	2,670	1,750	525	336	160
31	1,320	-----	7,200	2,050	-----	4,410	-----	2,990	-----	972	352	-----
TOTAL	50,068	159,230	109,320	85,906	52,994	196,525	101,190	43,314	82,085	45,861	30,946	5,193
MEAN	1,615	5,308	3,526	2,771	1,893	6,340	3,373	1,397	2,736	1,479	998	173
MAX	3,340	11,000	7,200	7,020	6,880	10,400	6,000	2,990	7,700	6,040	2,960	315
MIN	584	1,440	1,350	863	610	755	1,800	734	453	371	259	116
CFSM	.82	2.70	1.79	1.41	.96	3.22	1.72	.71	1.39	.75	.51	.09
IN.	.95	3.01	2.07	1.63	1.00	3.72	1.91	.82	1.55	.87	.59	.10

CAL YR 1972 TOTAL 830,518 MEAN 2,269 MAX 11,300 MIN 140 CFSM 1.15 IN 15.71
WTR YR 1973 TOTAL 962,632 MEAN 2,637 MAX 11,000 MIN 116 CFSM 1.34 IN 18.21

PEAK DISCHARGE (BASE, 9,500 CFS).—Nov. 15 (0245) 11,100 cfs (16.83 ft); Mar. 18 (2115) 10,500 cfs (15.69 ft).

04183500 Maumee River at Antwerp, Ohio

LOCATION.—Lat 41°11'56", long 84°44'40", in sec.22, T.3 N., R.1 E., Paulding County, on left bank 425 ft (130 m) downstream from bridge on State Highway 49, 1 mile (2 km) north of Antwerp, 7 miles (11 km) downstream from Indiana-Ohio state line and 10 miles (16 km) upstream from Marie DeLarme Creek.

DRAINAGE AREA.—2,129 sq mi (5,514 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: September 1921 to December 1935, April 1939 to current year.
CHEMICAL ANALYSES: October 1965 to June 1973 (discontinued).

GAGE.—Water-stage recorder. Datum of gage is 694.90 ft (211.806 m) above mean sea level. Prior to Sept. 13, 1925, nonrecording gage at site 400 ft (122 m) upstream at same datum.

AVERAGE DISCHARGE.—48 years, 1,665 cfs (47.15 cu m/s), 10.63 in/yr (270 mm/yr).

EXTREMES.—Current year: Maximum discharge, 12,600 cfs (357 cu m/s) Nov. 15, gage height, 14.83 ft (4.520 m); minimum, 115 cfs (3.26 cu m/s) Sept. 22.

Period of record: Maximum discharge, 26,200 cfs (742 cu m/s) May 20, 1943, gage height, 20.29 ft (6.184 m); minimum, 24 cfs (0.68 cu m/s) Oct. 17, 1930, June 21, 22, 1933, gage height, 0.32 ft (0.098 m).

Flood of Mar. 27, 1913, estimated as 40,000 cfs (1,133 cu m/s).

REMARKS.—Records good. Low flow slightly regulated by powerplant at Fort Wayne, Ind. 32 miles (51 km) upstream. Flow slightly regulated by upstream reservoirs.

REVISIONS (WATER YEARS).—WSP 1174: 1927, 1933, 1940. WSP 1387: 1922-23, 1925-27, 1934. WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,970	1,460	1,990	8,040	1,930	765	4,380	1,680	2,870	1,710	1,620	379
2	2,890	2,840	1,860	6,350	3,340	875	4,800	1,560	2,790	1,570	2,130	343
3	2,200	6,940	1,740	4,520	7,020	1,630	4,350	1,530	2,860	2,270	1,450	290
4	1,780	7,640	1,640	5,950	5,900	2,770	3,690	1,410	3,200	5,740	1,040	269
5	2,970	6,670	1,530	6,850	4,310	3,400	3,350	1,390	3,320	5,080	820	223
6	3,360	5,280	3,010	5,720	3,660	4,220	3,130	1,240	5,370	3,550	616	205
7	2,430	4,450	6,060	4,140	3,250	4,250	2,680	1,160	7,120	3,070	448	187
8	1,640	6,640	6,020	3,300	2,860	3,790	2,360	1,180	6,300	2,800	418	212
9	1,280	7,410	5,090	2,700	2,320	3,710	2,110	2,020	4,780	2,250	376	205
10	1,120	6,730	4,190	2,400	1,990	3,990	2,110	1,710	4,230	1,760	290	195
11	926	6,070	3,740	1,900	1,570	6,940	2,230	1,550	3,890	1,590	349	195
12	1,640	5,550	3,300	1,600	1,350	10,500	2,220	1,540	2,930	1,200	835	190
13	2,560	4,760	5,080	1,400	1,220	9,620	3,090	1,530	4,540	990	572	205
14	2,500	9,210	6,230	1,200	1,130	8,320	3,890	1,410	3,650	885	439	187
15	1,780	12,400	5,460	1,100	1,240	9,520	3,150	1,290	2,540	740	580	197
16	1,270	12,100	4,050	1,000	1,200	9,790	2,570	1,180	2,110	588	1,080	135
17	1,130	10,700	3,070	1,000	950	9,960	3,100	1,050	2,050	536	1,530	126
18	991	9,040	2,530	1,070	755	10,500	3,360	930	1,840	536	1,760	231
19	920	7,450	2,390	1,130	980	10,800	3,830	880	1,410	400	2,270	180
20	778	6,970	2,570	1,410	1,090	10,500	3,970	965	1,040	500	2,640	139
21	698	6,020	2,860	1,480	1,240	9,940	3,260	825	865	532	2,570	126
22	618	4,730	3,250	1,620	1,290	8,860	3,140	775	800	448	2,050	120
23	897	3,720	3,570	2,900	1,150	7,520	5,610	770	695	620	1,210	175
24	2,090	3,020	3,540	3,720	1,090	5,910	5,490	840	1,140	1,740	950	122
25	2,150	2,730	3,970	2,950	1,080	4,970	4,180	1,070	1,170	1,470	880	142
26	1,680	2,570	4,120	2,530	910	6,630	3,550	1,040	850	1,300	635	180
27	1,490	2,510	3,770	2,610	870	7,320	3,480	1,780	3,430	1,180	528	250
28	1,390	2,720	3,300	2,810	805	5,910	3,000	1,800	2,170	1,050	457	269
29	1,300	2,520	2,980	3,090	-----	4,480	2,410	1,820	3,120	760	373	146
30	1,610	2,120	3,780	2,910	-----	4,140	1,920	2,680	2,230	735	302	163
31	1,470	-----	7,290	2,370	-----	4,320	-----	2,890	-----	548	361	-----
TOTAL	53,528	172,970	113,980	91,770	56,500	195,850	100,410	43,495	85,310	48,148	31,579	5,986
MEAN	1,727	5,766	3,677	2,960	2,018	6,318	3,347	1,403	2,844	1,553	1,019	200
MAX	3,970	12,400	7,290	8,040	7,020	10,800	5,610	2,890	7,120	5,740	2,640	379
MIN	618	1,460	1,530	1,000	755	765	1,920	770	695	400	290	120
CFSM	.81	2.71	1.73	1.39	.95	2.97	1.57	.66	1.34	.73	.48	.09
IN.	.94	3.02	1.99	1.60	.99	3.42	1.75	.76	1.49	.84	.55	.10

CAL YR 1972 TOTAL 880,010 MEAN 2,404 MAX 12,400 MIN 158 CFSM 1.13 IN 15.38
WTR YR 1973 TOTAL 999,526 MEAN 2,738 MAX 12,400 MIN 120 CFSM 1.29 IN 17.46

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	1400	14.83	12,600	03-12	0900	13.48	10,600
01-01	0500	11.67	8,300	03-19	0700	13.72	11,000

STREAMS TRIBUTARY TO LAKE ERIE

04183500 Maumee River at Antwerp, Ohio—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 11...	1330	935	14.5	16.5	660	8.3	25	8.6	60	23600
NOV. 14...	1300	10400	7.0	1.5	380	7.2	35	9.6	79	22000
DEC. 13...	0930	--	--	--	--	--	25	--	--	--
13...	0930	5240	.5	-3.0	520	8.0	--	12.2	85	16500
19...	1200	--	.5	--	544	8.5	--	--	--	--
JAN. 17...	0900	2410	4.0	7.0	560	7.6	10	8.6	66	2520
FEB. 21...	0945	1230	1.0	5.0	720	7.7	20	12.2	86	3000
MAR. 21...	1030	10000	4.5	.5	400	7.2	25	12.2	94	16000
APR. 18...	0930	3330	11.0	12.5	460	7.6	60	9.6	87	81000
MAY 22...	1430	815	15.5	17.5	650	7.9	25	10.8	108	13200
JUNE 19...	1230	1330	23.5	30.0	500	7.6	25	6.2	72	51000

DATE	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT. 11...	.60	.06	2.9	.16	.49	528	108	420	1060
NOV. 14...	.08	.20	3.0	3.0	.62	599	361	238	6680
DEC. 13...	.13	.14	3.0	1.2	.36	470	170	300	--
13...	--	--	--	--	--	--	--	--	--
19...	--	--	3.7	--	--	--	--	--	--
JAN. 17...	.22	.04	2.7	.49	.03	478	12	466	3030
FEB. 21...	.47	.04	3.3	.76	.36	538	70	468	1550
MAR. 21...	.00	.07	3.0	.00	.29	366	136	230	6210
APR. 18...	.03	.08	3.6	.72	.30	538	212	326	2930
MAY 22...	.43	.05	1.5	1.4	.26	534	104	430	946
JUNE 19...	.11	.15	3.0	2.0	.38	528	218	310	1110

04183500 Maumee River at Antwerp, Ohio--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED AMMONIA (NH4) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)
OCT. 11...	.57	--	--	--	3	--	--	--	--
NOV. 14...	.32	.10	13	.6	4	--	--	--	--
DEC. 13...	.41	.17	13	.4	9	.01	.3	6	100
13...	--	--	--	--	--	--	--	--	--
19...	--	--	16	--	--	--	--	--	--
JAN. 17...	.63	.28	12	.1	4	--	--	--	--
FEB. 21...	.64	.61	15	.1	3	--	--	--	--
MAR. 21...	.31	.00	13	.2	5	.01	.2	6	0
APR. 18...	.44	.04	16	.2	2	--	--	--	--
MAY 22...	.58	.55	6.6	.1	2	--	--	--	--
JUNE 19...	.42	.14	13	.4	0	.01	.4	5	100

DATE	DIS-SOLVED CAD- MIUM (CD) (UG/L)	DIS-SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED SELE- NIUM (SE) (UG/L)
OCT. 11...	--	--	--	--	--	--	--	--	--
NOV. 14...	--	--	--	--	--	--	--	--	--
DEC. 13...	1	0	--	17	3	10	0	60	5
13...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
JAN. 17...	--	--	--	--	--	--	--	--	--
FEB. 21...	--	--	--	--	--	--	--	--	--
MAR. 21...	0	4	4	21	12	10	0	80	4
APR. 18...	--	--	--	--	--	--	--	--	--
MAY 22...	--	--	--	--	--	--	--	--	--
JUNE 19...	4	0	--	27	9	14	1	70	0

05515000 Kankakee River near North Liberty, Ind.

LOCATION.—Lat 41°33'50", long 86°29'50", in NW 1/4 NE 1/4 sec.23, T.36 N., R.1 W., St. Joseph County, on left bank at downstream side of bridge on county highway named "New Road", 2.7 miles (4.3 km) upstream from Little Kankakee River, and 4 miles (6 km) northwest of North Liberty.

DRAINAGE AREA.—174 sq mi (451 sq km), of which 58.2 sq mi (150.7 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.—January 1951 to current year.

GAGE.—Water-stage recorder. Datum of gage is 680.04 ft (207.276 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to June 26, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—22 years, 146 cfs (4.135 cu m/s), 11.39 in/yr (289 mm/yr).

EXTREMES.—Current year: Maximum discharge, 676 cfs (19.1 cu m/s) Dec. 31, gage height, 8.46 ft (2.579 m); minimum daily, 56 cfs (1.59 cu m/s) Sept. 15, 16.

Period of record: Maximum discharge, 686 cfs (19.4 cu m/s) Oct. 10, 1954; maximum gage height, 9.04 ft (2.755 m) June 27, 1968; minimum daily discharge, 46 cfs (1.30 cu m/s) Sept. 9, 10, 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1915: 1952, 1956-59. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	286	201	217	651	225	173	349	235	234	150	138	71
2	231	217	203	567	268	176	360	234	206	145	126	67
3	202	220	190	496	290	185	322	224	202	145	117	64
4	188	207	188	524	270	191	292	214	195	145	109	64
5	186	199	183	470	255	202	269	205	209	140	102	64
6	177	191	218	401	244	232	250	201	210	135	96	64
7	169	191	233	350	236	222	235	198	199	130	93	62
8	161	228	215	314	232	207	223	199	186	125	89	60
9	153	227	203	288	223	197	221	193	177	125	92	62
10	148	213	195	266	216	200	228	186	171	125	88	63
11	167	208	185	251	209	212	221	181	165	125	85	61
12	233	197	198	238	203	218	221	179	161	125	84	60
13	224	199	288	231	199	204	216	175	154	119	79	59
14	201	319	282	226	199	204	209	175	150	113	78	58
15	182	350	249	221	200	203	203	171	145	114	74	56
16	178	303	226	217	193	194	203	170	160	113	73	56
17	169	268	209	236	187	205	207	165	190	110	71	67
18	160	242	206	269	185	207	200	163	200	104	70	79
19	158	228	203	321	184	216	201	165	190	101	76	75
20	154	223	208	310	185	222	197	162	195	111	86	71
21	154	223	222	278	187	221	200	159	200	115	80	70
22	189	226	235	280	184	212	403	162	190	111	75	71
23	343	220	236	335	183	200	524	167	180	106	74	69
24	330	212	231	322	179	193	423	163	170	101	88	69
25	283	222	234	294	177	193	350	173	165	96	88	71
26	249	245	235	282	176	205	301	168	160	92	83	74
27	226	248	226	278	174	191	269	168	160	97	79	71
28	218	236	216	272	172	191	251	197	160	100	75	73
29	231	225	215	258	-----	235	238	209	155	101	71	80
30	225	220	376	238	-----	299	236	255	150	99	71	82
31	210	-----	668	226	-----	279	-----	276	-----	114	75	-----
TOTAL	6,385	6,908	7,393	9,910	5,835	6,489	8,022	5,892	5,389	3,632	2,685	2,013
MEAN	206	230	238	320	208	209	267	190	180	117	86.6	67.1
MAX	343	350	668	651	290	299	524	276	234	150	138	82
MIN	148	191	183	217	172	173	197	159	145	92	70	56
CFSM	1.18	1.32	1.37	1.84	1.20	1.20	1.53	1.09	1.03	.67	.50	.39
IN.	1.37	1.48	1.58	2.12	1.25	1.39	1.72	1.26	1.15	.78	.57	.43

CAL YR 1972 TOTAL 63,587 MEAN 174 MAX 668 MIN 78 CFSM 1.00 IN 13.59
WTR YR 1973 TOTAL 70,553 MEAN 193 MAX 668 MIN 56 CFSM 1.11 IN 15.08

05515400 Kingsbury Creek near LaPorte, Ind.

LOCATION.--Lat 41°32'49", long 86°43'48", in SW 1/4 SE 1/4 sec.23, T.36 N., R.3 W., LaPorte County, on left bank at upstream side of bridge on 400 South Road, 0.5 mile (0.8 km) east (revised) of State Road 39, 1.5 miles (2.4 km) west (revised) of U.S. Highway 35, and 3 miles (5 km) south of LaPorte city limits.

DRAINAGE AREA.--7.08 sq mi (18.34 sq km), of which 4.07 sq mi (10.54 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 753.00 ft (229.514 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 44 cfs (1.25 cu m/s) Apr. 22, gage height, 5.44 ft (1.658 m); minimum daily, 3.7 cfs (0.105 cu m/s) Sept. 7, 12.

Period of record: Maximum discharge, 44 cfs (1.25 cu m/s) Apr. 22, 1973, gage height, 5.44 ft (1.658 m); minimum daily, 0.83 cfs (0.024 cu m/s) Dec. 3, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	6.4	6.8	12	9.9	7.6	18	9.7	8.5	6.6	5.9	4.0
2	5.5	8.2	6.9	9.9	11	7.9	11	9.6	7.9	6.4	5.7	4.0
3	5.3	6.8	6.9	14	9.4	8.9	9.9	9.2	9.2	6.7	5.5	4.2
4	5.3	6.5	6.5	13	8.9	8.4	9.1	8.9	8.9	7.1	5.3	4.0
5	5.3	6.2	8.9	10	8.5	11	9.1	8.8	11	6.7	5.1	4.0
6	5.1	6.2	9.7	8.0	8.4	9.1	8.7	8.5	12	6.4	5.0	3.9
7	5.1	8.5	7.1	8.0	8.1	8.7	8.5	8.9	9.0	6.2	5.0	3.7
8	5.0	8.5	5.8	8.5	7.8	8.1	8.4	8.9	8.0	6.0	5.0	3.8
9	4.7	7.5	6.0	8.7	7.0	7.8	9.7	8.4	7.3	6.0	5.1	3.9
10	4.7	7.5	6.0	6.5	6.0	8.1	9.4	8.1	7.3	6.0	5.0	3.8
11	7.4	7.4	5.5	5.0	7.0	9.6	8.7	8.0	7.2	5.8	5.0	3.8
12	5.9	6.8	10	6.0	7.4	8.2	9.7	8.0	7.0	5.7	4.9	3.7
13	5.4	9.7	9.7	7.0	7.6	7.8	8.5	8.0	6.7	5.5	4.8	3.8
14	5.0	12	7.1	8.0	8.2	8.4	8.2	7.9	6.8	5.5	4.8	3.8
15	4.8	8.8	6.0	8.9	8.1	7.9	8.5	7.6	7.0	5.5	4.5	3.8
16	5.1	8.5	5.8	9.6	7.2	7.8	9.4	7.9	8.5	5.4	4.5	3.9
17	4.7	8.1	5.0	11	6.7	9.2	8.7	7.7	13	5.5	4.4	4.5
18	4.9	7.6	6.5	13	7.3	8.5	8.5	7.6	8.4	5.4	4.3	4.6
19	5.3	7.5	6.8	12	7.9	8.5	8.7	7.9	7.5	5.3	4.5	4.3
20	5.1	7.6	7.5	10	8.4	8.7	8.4	7.6	8.4	5.5	4.4	4.0
21	5.5	7.8	7.8	9.4	8.1	8.2	10	7.5	7.2	5.7	4.3	3.9
22	9.4	7.8	7.5	12	7.6	8.4	24	8.0	6.8	5.5	4.3	3.9
23	10	7.4	7.2	11	7.6	8.1	13	8.1	6.8	5.4	4.4	3.8
24	7.4	7.2	7.2	9.4	7.6	7.9	11	7.7	7.2	6.3	5.1	3.9
25	6.7	7.5	7.2	9.1	7.6	8.9	9.9	8.6	6.8	5.7	4.6	4.8
26	6.4	7.9	7.1	9.1	7.5	8.7	9.6	7.9	6.8	6.7	4.4	4.4
27	6.2	7.2	7.2	8.9	7.5	7.9	9.3	11	6.8	5.9	4.3	3.8
28	6.9	6.9	6.8	8.9	7.5	7.9	9.3	14	8.0	5.7	4.3	3.9
29	6.9	6.8	7.6	8.4	-----	12	9.6	9.9	7.2	5.4	4.2	4.5
30	6.4	6.9	27	8.2	-----	9.2	9.7	13	6.8	5.9	4.2	4.2
31	6.2	-----	16	8.2	-----	11	-----	9.6	-----	6.3	4.2	-----
TOTAL	183.5	229.7	249.1	291.7	221.8	268.4	304.5	272.5	240.0	183.7	147.0	120.6
MEAN	5.92	7.66	8.04	9.41	7.92	8.66	10.2	8.79	8.00	5.93	4.74	4.02
MAX	10	12	27	14	11	12	24	14	13	7.1	5.9	4.8
MIN	4.7	6.2	5.0	5.0	6.0	7.6	8.2	7.5	6.7	5.3	4.2	3.7
CFSM	.84	1.08	1.14	1.33	1.12	1.22	1.44	1.24	1.13	.84	.67	.57
IN.	.96	1.21	1.31	1.53	1.17	1.41	1.60	1.43	1.26	.97	.77	.63

CAL YR '972 / TOTAL 1,729.9 MEAN 4.73 MAX 27 MIN 2.0 CFSM .67 IN 9.09
WTR YR 1973 / TOTAL 2,712.5 MEAN 7.43 MAX 27 MIN 3.7 CFSM 1.05 IN 14.25

PEAK DISCHARGE (BASE, 15 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	2200	4.25	16	01-03	1900	4.62	23	05-27	2200	4.64	24
12-05	2200	4.44	20	01-18	2100	4.25	16	05-30	0500	4.50	21
12-12	2000	4.25	16	04-01	0100	4.92	30	06-17	0300	4.37	18
12-30	1600	5.20	37	04-22	0700	5.44	44				

ILLINOIS RIVER BASIN

05515500 Kankakee River at Davis, Ind.

LOCATION.—Lat 41°24'00", long 86°42'04", in SE 1/4 NE 1/4 sec.13, T.34 N., R.3 W., Starke County, on left bank at downstream side of bridge on U.S. Highway 30 at Davis, 0.5 mile (0.8 km) downstream from Mill Creek, and 4 miles (6 km) east of Hanna.

DRAINAGE AREA.—537 sq mi (1,391 sq km), of which 137 sq mi (355 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.—July 1905 to July 1906 and October 1924 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.—Water-stage recorder. Datum of gage is 664.68 ft (202.594 m) above mean sea level. July 13, 1905, to July 21, 1906, non-recording gage at site 50 ft (15 m) downstream at different datum. July 28, 1925, to May 18, 1929, nonrecording gage on bridge 0.5 mile (0.8 km) downstream at different datum. Apr. 19, 1931, to Nov. 3, 1953, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.—49 years, 1924 to current year, 488 cfs (13.82 cu m/s), 12.34 in/yr (313 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,450 cfs (41.1 cu m/s) Jan. 4, gage height, 12.11 ft (3.691 m); minimum daily, 289 cfs (8.18 cu m/s) Sept. 16.

Period of record: Maximum discharge, 1,700 cfs (48.1 cu m/s) Dec. 15, 1927, gage height, 9.50 ft (2.896 m), site and datum then in use, from rating curve extended above 520 cfs (14.7 cu m/s); maximum gage height at present site and datum, 12.11 ft (3.691 m) Jan. 4, 1973; minimum daily discharge, 154 cfs (4.36 cu m/s) Aug. 30 to Sept. 3, 1941.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1338: 1953. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,310	805	796	1,430	855	650	1,200	846	1,040	579	576	339
2	1,220	829	776	1,420	945	659	1,290	834	916	561	548	332
3	1,110	866	754	1,410	1,040	689	1,250	810	836	548	506	321
4	1,010	833	735	1,450	1,050	727	1,180	778	805	569	471	321
5	934	789	721	1,430	1,000	763	1,110	747	852	571	447	319
6	864	753	838	1,390	968	880	1,040	724	942	544	428	315
7	796	748	945	1,330	936	886	990	711	910	523	414	308
8	744	838	895	1,270	908	844	930	713	826	505	406	305
9	702	899	838	1,210	870	790	890	702	754	491	416	304
10	661	871	787	1,130	832	776	904	682	698	480	409	308
11	664	842	738	1,070	799	812	876	661	659	466	398	305
12	796	802	741	1,000	769	884	868	650	659	452	388	298
13	851	796	970	952	754	852	880	641	657	445	381	297
14	802	1,100	1,090	901	745	814	840	634	611	439	378	293
15	736	1,290	1,040	868	754	799	797	632	590	430	375	290
16	703	1,280	948	838	742	776	785	624	598	424	369	289
17	679	1,220	868	875	707	818	852	614	814	415	362	301
18	643	1,150	816	967	695	882	854	601	856	403	353	335
19	639	1,090	805	1,080	686	916	836	606	779	391	353	325
20	622	1,050	835	1,100	704	948	824	604	814	413	371	317
21	615	1,020	893	1,060	709	958	824	592	828	434	364	311
22	684	1,000	950	1,040	698	922	1,030	588	747	439	351	310
23	1,040	967	965	1,100	698	882	1,330	620	686	483	349	305
24	1,160	919	950	1,110	682	850	1,310	625	680	477	380	305
25	1,120	895	952	1,030	675	832	1,240	614	670	459	387	326
26	1,040	906	963	1,040	666	876	1,130	634	634	443	375	333
27	974	923	937	1,030	652	870	1,040	614	616	443	360	324
28	930	899	906	1,020	653	812	950	722	620	430	349	318
29	915	853	888	992	-----	888	886	822	635	426	340	331
30	888	818	1,140	932	-----	1,080	862	942	611	421	339	343
31	846	-----	1,410	882	-----	1,080	-----	1,100	-----	493	346	-----
TOTAL	26,698	28,051	27,890	34,357	22,192	26,215	29,798	21,497	22,343	14,597	12,289	9,428
MEAN	861	935	900	1,108	793	846	993	0	745	471	396	314
MAX	1,310	1,290	1,410	1,450	1,050	1,080	1,330	1,000	1,040	579	576	343
MIN	615	748	721	838	652	650	785	0	590	391	339	289
CFSM	1.60	1.74	1.68	2.06	1.48	1.58	1.85	1.30	1.39	0.88	0.74	0.58
IN.	1.85	1.94	1.93	2.38	1.54	1.82	2.06	1.50	1.55	1.01	0.85	0.65

CAL YR 1972 TOTAL 243,096 MEAN 664 MAX 1,410 MIN 299 CFSM 1.24 IN 16.84
WTR YR 1973 TOTAL 275,545 MEAN 755 MAX 1,450 MIN 289 CFSM 1.41 IN 19.09

05516000 Yellow River near Bremen, Ind.

LOCATION.--Lat 41°25'11", long 86°10'14", in NW 1/4 NW 1/4 sec.10, T.34 N., R.3 E., Marshall County, on left bank at downstream side of bridge on East 4th Road, 0.5 mile (0.8 km) downstream from Bunch ditch, 2 miles (3 km) southwest of Bremen, and 4 miles (6 km) upstream from Dausman ditch.

DRAINAGE AREA.--135 sq mi (350 sq km).

PERIOD OF RECORD.--August 1955 to September 1973 (discontinued as a continuous-recorder station; converted to a crest-stage and low-flow partial-recrod station).

GAGE.--Water-stage recorder. Datum of gage is 784.63 ft (239.155 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--18 years, 104 cfs (2.945 cu m/s), 10.46 in/yr (266 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,160 cfs (32.9 cu m/s) Jan. 1, gage height, 13.05 ft (3.978 m); minimum daily, 9.0 cfs (0.25 cu m/s) Sept. 10, 15, 16.

Period of record: Maximum discharge, 1,650 cfs (46.7 cu m/s) Dec. 26, 1965, gage height, 13.99 ft (4.264 m); minimum daily, 6.2 cfs (0.18 cu m/s) Oct. 17, 1964, and Oct. 1, 2, 1971.

REMARKS.--Records good.

REVISIONS.--WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	615	162	162	1,110	127	75	682	98	171	35	23	11
2	375	226	151	920	305	91	624	97	122	35	19	10
3	268	269	152	618	362	156	431	93	121	36	18	9.8
4	233	198	140	743	255	180	331	85	110	56	17	9.8
5	268	170	130	529	217	335	270	79	239	43	16	10
6	217	150	323	339	191	444	224	72	213	37	15	9.8
7	188	147	283	234	169	303	190	71	150	32	15	9.8
8	165	192	207	190	150	232	165	61	112	29	14	9.5
9	136	249	174	135	130	179	156	71	93	27	14	9.5
10	117	201	158	120	120	175	200	67	79	25	16	9.0
11	184	183	137	90	112	381	178	64	71	24	15	9.3
12	511	174	167	60	102	412	198	60	141	22	15	9.3
13	397	201	626	60	95	241	229	54	99	21	14	9.3
14	256	812	487	64	99	208	176	57	77	20	13	9.3
15	192	929	292	70	114	218	149	54	69	20	13	9.0
16	176	743	177	77	103	171	155	51	66	19	13	9.0
17	156	499	140	102	95	363	228	48	70	19	13	11
18	130	371	120	143	80	454	186	47	63	18	13	10
19	120	296	130	257	82	484	186	49	56	18	13	10
20	113	272	238	208	91	546	179	47	61	35	13	10
21	110	309	380	156	100	443	201	44	53	83	12	10
22	212	282	430	205	95	357	541	44	48	90	11	9.8
23	695	250	372	386	92	289	590	43	47	40	11	9.5
24	656	214	293	247	86	251	322	46	67	24	15	9.8
25	403	195	344	199	83	254	218	65	57	22	13	10
26	284	224	307	236	80	462	166	67	52	20	11	10
27	220	257	261	257	74	300	138	55	45	21	11	9.8
28	192	216	188	286	72	213	93	86	46	24	11	10
29	212	181	236	230	-----	434	101	198	42	20	11	13
30	202	166	733	159	-----	589	96	224	39	21	12	12
31	178	-----	1,080	127	-----	407	-----	284	-----	22	11	-----
TOTAL	8,181	8,738	9,018	8,557	3,681	9,647	7,603	2,481	2,679	958	431	298.3
MEAN	264	291	291	276	131	311	253	80.0	89.3	30.9	13.9	9.94
MAX	695	929	1,080	1,110	362	589	682	284	239	90	23	13
MIN	110	147	120	60	72	75	93	43	39	18	11	9.0
CFSM	1.96	2.16	2.16	2.04	.97	2.30	1.87	.59	.66	.23	.10	.07
IN.	2.25	2.41	2.48	2.36	1.01	2.66	2.10	.68	.74	.26	.12	.08

CAL YR 1972 TOTAL 77,124.0 MEAN 211 MAX 1,080 MIN 22 CFSM 1.56 IN 21.25
WTR YR 1973 TOTAL 62,272.3 MEAN 171 MAX 1,110 MIN 9.0 CFSM 1.27 IN 17.16

PEAK DISCHARGE (BASE, 800 CFS).--Nov. 15 (0700) 943 cfs (11.59 ft); Jan. 1 (0200) 1,160 cfs (13.05 ft).

05516500 Yellow River at Plymouth, Ind.

LOCATION.—Lat 41°20'25", long 86°18'16", in SE 1/4 NW 1/4 sec.13, T.33 N., R.2 E., Marshall County, on left bank 50 ft (15 m) upstream from LaPorte Street footbridge in Plymouth, 1.1 miles (1.8 km) downstream from Elmer Seldenright (formerly Baker) ditch, and 8.1 miles (13.0 km) upstream from Wolf Creek.

DRAINAGE AREA.—294 sq mi (761 sq km).

PERIOD OF RECORD.—July 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 764.78 ft (233.105 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—25 years, 249 cfs (7.052 cu m/s), 11.50 in/yr (292 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,910 cfs (54.1 cu m/s) Jan. 2, gage height, 12.83 ft (3.911 m); minimum daily, 26 cfs (0.74 cu m/s) Sept. 27.

Period of record: Maximum discharge, 5,390 cfs (153 cu m/s) Oct. 12, 13, 1954, gage height, 17.13 ft (5.221 m); minimum daily, 13 cfs (0.37 cu m/s) Dec. 3, 7, 1964.

REVISIONS.—The maximum discharge for the 1972 water year has been revised to 1,440 cfs (40.8 cu m/s) Apr. 17, 1972, gage height, 11.30 ft (3.444 m), superseding figure published in WRD Ind. 1972.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1338: 1950-51. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,420	381	359	1,750	336	182	994	250	608	99	83	45
2	1,280	480	341	1,890	600	207	1,140	250	373	82	81	42
3	912	742	335	1,800	802	309	1,100	237	301	108	71	41
4	588	644	317	1,500	720	429	1,000	215	279	136	65	39
5	578	468	304	1,350	570	538	658	199	422	132	64	39
6	532	386	464	1,110	506	828	532	188	614	109	62	37
7	440	364	652	732	429	798	448	187	500	97	58	36
8	362	536	492	514	395	642	386	185	443	87	58	36
9	303	680	399	400	344	488	351	185	263	80	56	36
10	250	548	356	309	308	444	399	181	216	77	77	36
11	400	460	314	260	266	622	399	166	193	70	69	36
12	674	415	335	180	245	895	397	155	212	64	63	33
13	946	413	764	180	232	830	490	148	231	63	59	33
14	881	869	1,020	190	237	618	413	143	181	63	59	33
15	558	1,270	1,000	200	263	596	348	140	157	58	57	32
16	413	1,480	500	202	242	500	346	133	150	58	57	32
17	356	1,420	370	236	221	618	442	129	161	58	55	31
18	298	1,110	300	321	200	802	417	120	162	58	54	31
19	258	794	348	514	207	922	397	120	146	57	52	31
20	248	630	397	562	226	958	404	119	153	71	54	31
21	239	618	594	399	248	986	399	115	144	80	55	30
22	335	618	732	408	242	886	712	120	126	210	53	29
23	838	552	758	676	234	728	1,010	136	119	220	46	29
24	1,150	474	694	704	213	618	1,030	130	136	137	55	29
25	1,220	427	682	518	203	572	674	162	144	115	57	28
26	972	442	684	514	202	720	433	183	132	98	56	28
27	628	508	600	560	188	772	354	161	126	84	51	26
28	474	476	514	608	182	778	300	189	122	80	49	32
29	468	404	482	604	-----	660	266	346	116	78	46	36
30	486	368	857	438	-----	914	253	420	105	74	47	48
31	422	-----	1,490	338	-----	970	-----	696	-----	87	49	-----
TOTAL	18,929	18,977	17,454	19,967	9,061	20,830	16,492	6,108	7,035	2,890	1,818	1,025
MEAN	611	633	563	644	324	672	550	197	235	93.2	58.6	34.2
MAX	1,420	1,480	1,490	1,890	802	986	1,140	696	614	220	83	48
MIN	239	364	300	180	182	182	253	115	105	57	46	26
CFSM	2.08	2.15	1.92	2.19	1.10	2.29	1.87	.67	.80	.32	.20	.12
IN.	2.40	2.40	2.21	2.53	1.15	2.64	2.09	.77	.89	.37	.23	.13
CAL YR 1972	TOTAL 153,508	MEAN 419	MAX 1,490	MIN 31	CFSM 1.43	IN 19.42						
WTR YR 1973	TOTAL 140,586	MEAN 385	MAX 1,890	MIN 26	CFSM 1.31	IN 17.79						

05517000 Yellow River at Knox, Ind.

LOCATION.--Lat 41°18'10", long 86°37'14", in SW 1/4 SW 1/4 sec.14, T.33 N., R.2 W., Starke County, on right bank 40 ft (12 m) upstream from bridge on U.S. Highway 35 in Knox, 1.5 miles (2.4 km) downstream from Eagle Creek, and 9 miles (14 km) upstream from mouth.

DRAINAGE AREA.--435 sq mi (1,127 sq km).

PERIOD OF RECORD.--August 1905 to July 1906, August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 679.93 ft (207.243 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years (1943 to current year), 382 cfs (10.82 cu m/s), 11.93 in/yr (303 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,000 cfs (85.0 cu m/s) Jan. 4, gage height, 9.26 ft (2.822 m); minimum daily, 119 cfs (3.37 cu m/s) Sept. 28.

Period of record: Maximum discharge, 5,660 cfs (160 cu m/s) Oct. 15, 16, 1954, gage height, 13.75 ft (4.191 m); minimum daily, 50 cfs (1.42 cu m/s) Jan. 21-31, 1963.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1278: 1952. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,640	590	631	2,180	590	371	1,340	535	888	266	246	152
2	1,710	590	615	2,470	647	380	1,380	530	806	255	246	148
3	1,690	698	595	2,670	830	425	1,460	520	625	255	225	146
4	1,360	826	580	2,940	986	535	1,500	490	580	283	213	142
5	952	798	560	2,620	958	636	1,280	460	658	298	204	142
6	840	656	605	2,080	806	788	1,000	435	812	276	198	140
7	764	580	740	1,710	734	986	830	420	888	255	193	138
8	662	590	842	1,170	675	1,030	740	425	752	240	188	133
9	575	704	728	800	636	848	675	425	595	231	183	133
10	505	791	647	660	590	716	658	410	500	225	185	133
11	470	716	590	500	550	728	680	390	445	216	195	133
12	555	632	570	420	510	895	675	371	415	210	188	129
13	819	602	716	360	480	1,070	710	357	440	201	180	127
14	1,020	784	979	380	465	1,100	740	348	415	195	180	127
15	1,050	1,070	1,190	410	480	874	669	344	366	193	185	127
16	791	1,350	1,220	460	495	806	620	335	362	188	180	125
17	614	1,700	867	470	475	788	664	322	405	185	175	125
18	545	1,880	675	530	400	888	722	314	415	180	170	129
19	485	1,650	600	653	420	1,060	704	318	380	178	166	129
20	445	1,260	615	758	430	1,170	680	318	380	185	170	127
21	428	986	675	752	455	1,240	692	310	371	204	170	125
22	460	923	824	658	465	1,270	812	310	339	222	163	123
23	674	902	944	746	455	1,190	1,080	335	314	380	161	121
24	973	824	993	909	440	1,000	1,270	339	310	362	170	121
25	1,200	758	958	916	415	854	1,350	339	318	302	178	131
26	1,380	728	944	758	405	848	1,050	395	314	269	173	125
27	1,260	746	937	752	395	930	758	395	306	243	161	121
28	889	770	854	788	380	993	642	395	302	222	157	119
29	686	728	776	824	-----	867	580	465	294	210	155	123
30	656	664	930	794	-----	923	545	636	280	207	152	127
31	638	-----	1,570	653	-----	1,130	-----	746	-----	225	159	-----
TOTAL	26,736	26,496	24,970	32,791	15,567	27,339	26,506	12,732	14,275	7,361	5,669	3,921
MEAN	862	883	805	1,058	556	882	884	411	476	237	183	131
MAX	1,710	1,880	1,570	2,940	986	1,270	1,500	746	888	380	246	152
MIN	428	580	560	360	380	371	545	310	280	178	152	119
CFSM	1.98	2.03	1.85	2.43	1.28	2.03	2.03	.94	1.09	.54	.42	.30
IN.	2.29	2.27	2.14	2.80	1.33	2.34	2.27	1.09	1.22	.63	.48	.34

CAL YR 1972 TOTAL 217,536 MEAN 594 MAX 1,880 MIN 157 CFSM 1.37 IN 18.60
WTR YR 1973 TOTAL 224,363 MEAN 615 MAX 2,940 MIN 119 CFSM 1.41 IN 19.19

PEAK DISCHARGE (BASE, 1,600 CFS).--Nov. 18 (0200) 1,920 cfs (8.05 ft); Jan. 4 (1300) 3,000 cfs (9.26 ft).

05517500 Kankakee River at Dunns Bridge, Ind.

LOCATION.--Lat 41°13'17", long 86°57'52", in NE 1/4 SE 1/4 sec.15, T.32 N., R.5 W., Jasper County, on left bank at downstream side of county highway bridge at Dunns Bridge, 1.8 miles (2.9 km) north of Tefft, and 3.5 miles (5.6 km) upstream from Davis ditch.

DRAINAGE AREA.--1,352 sq mi (3,502 sq km), of which 192 sq mi (497 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 649.65 ft (198.013 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 17, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 1,277 cfs (36.16 cu m/s), 12.83 in/yr (326 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,720 cfs (105 cu m/s) Jan. 6, gage height, about 11.3 ft (3.44 m); minimum daily, 543 cfs (15.4 cu m/s) Sept. 16.

Period of record: Maximum discharge, 5,300 cfs (150 cu m/s) Oct. 22, 1954, gage height, 13.20 ft (4.023 m); minimum daily, 280 cfs (7.93 cu m/s) Jan. 25-29, 1963.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1728: 1954(m). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,210	2,360	2,260	3,400	2,470	1,500	2,860	2,340	2,410	1,360	1,410	659
2	3,280	2,310	2,190	3,550	2,490	1,510	3,010	2,240	2,460	1,300	1,450	635
3	3,300	2,290	2,120	3,600	2,550	1,570	3,100	2,150	2,370	1,260	1,330	616
4	3,310	2,300	2,050	3,650	2,620	1,670	3,150	2,050	2,220	1,270	1,180	602
5	3,310	2,320	1,980	3,700	2,670	1,810	3,170	1,960	2,170	1,290	1,080	602
6	3,240	2,260	2,050	3,720	2,670	1,490	3,150	1,870	2,280	1,250	1,020	591
7	3,080	2,190	2,180	3,700	2,610	2,180	3,050	1,800	2,410	1,190	963	578
8	2,910	2,140	2,260	3,650	2,520	2,290	2,910	1,760	2,410	1,140	927	570
9	2,700	2,160	2,280	3,600	2,410	2,310	2,770	1,740	2,280	1,100	907	567
10	2,470	2,220	2,200	3,420	2,290	2,240	2,630	1,700	2,080	1,060	902	570
11	2,270	2,270	2,060	3,220	2,170	2,210	2,510	1,640	1,900	1,020	891	567
12	2,200	2,240	2,000	2,970	2,070	2,260	2,450	1,580	1,820	980	875	559
13	2,220	2,190	2,170	2,710	1,960	2,320	2,420	1,530	1,750	952	848	551
14	2,270	2,350	2,400	2,510	1,490	2,390	2,490	1,490	1,690	932	826	548
15	2,290	2,670	2,570	2,380	1,870	2,410	2,340	1,460	1,590	916	824	546
16	2,310	2,860	2,620	2,330	1,830	2,340	2,270	1,440	1,540	886	810	543
17	2,260	2,980	2,520	2,300	1,750	2,310	2,270	1,400	1,840	861	797	556
18	2,120	3,080	2,360	2,340	1,690	2,320	2,300	1,370	2,150	837	770	605
19	1,980	3,170	2,230	2,480	1,670	2,370	2,320	1,370	2,140	824	743	608
20	1,890	3,210	2,210	2,550	1,680	2,490	2,320	1,370	2,090	851	751	594
21	1,820	3,170	2,230	2,590	1,700	2,540	2,360	1,330	2,110	894	745	583
22	1,840	3,070	2,290	2,610	1,690	2,590	2,530	1,300	2,020	1,000	721	575
23	2,170	2,960	2,380	2,630	1,670	2,610	2,790	1,370	1,860	1,150	694	567
24	2,510	2,840	2,460	2,650	1,640	2,580	2,930	1,440	1,730	1,220	743	559
25	2,690	2,730	2,510	2,690	1,610	2,510	3,010	1,430	1,650	1,160	770	608
26	2,790	2,640	2,530	2,710	1,580	2,450	3,050	1,430	1,600	1,090	751	662
27	2,840	2,570	2,530	2,690	1,540	2,400	3,020	1,470	1,540	1,030	718	629
28	2,850	2,510	2,500	2,680	1,510	2,380	2,890	1,580	1,520	974	694	602
29	2,760	2,440	2,460	2,670	-----	2,430	2,680	1,760	1,500	930	675	610
30	2,600	2,340	2,640	2,630	-----	2,500	2,490	1,960	1,450	930	662	629
31	2,450	-----	3,040	2,560	-----	2,610	-----	2,260	-----	1,170	670	-----
TOTAL	79,940	76,860	72,280	90,890	56,820	70,090	81,140	51,590	58,580	32,827	27,147	17,691
MEAN	2,574	2,462	2,332	2,932	2,029	2,261	2,705	1,664	1,953	1,059	876	590
MAX	3,310	3,210	3,040	3,720	2,670	2,610	3,170	2,340	2,460	1,360	1,450	662
MIN	1,820	2,140	1,980	2,300	1,510	1,500	2,270	1,300	1,450	824	662	543
CFSM	1.91	1.90	1.72	2.17	1.50	1.67	2.00	1.23	1.44	.78	.65	.44
IN.	2.20	2.11	1.99	2.50	1.56	1.93	2.23	1.42	1.61	.90	.75	.49
CAL YR 1972	TOTAL 663,581	MEAN 1,913	MAX 3,310	MIN 589	CFSM 1.34	IN 18.26						
WTR YR 1973	TOTAL 715,455	MEAN 1,961	MAX 3,720	MIN 543	CFSM 1.45	IN 19.70						

NOTE.--No gage-height record Jan. 1-8, 1973.

05517900 Cobb ditch near Kouts, Ind.

LOCATION.--Lat 41°19'08", long 87°04'55", in SW 1/4 SW 1/4 sec.11, T.33 N., R.6 W., Porter County, on left bank 15 ft (4.6 m) upstream from bridge on State Highway 8, 700 ft (213 m) upstream from mouth, and 3 miles (5 km) west of Kouts.

DRAINAGE AREA.--31.7 sq mi (82.1 sq km).

PERIOD OF RECORD.--July 1968 to current year. Prior to October 1971, published as State ditch near Kouts.

GAGE.--Water-stage recorder. Datum of gage is 652.00 ft (198.730 m) above mean sea level (State Highway Commission bench mark).

AVERAGE DISCHARGE.--5 years, 32.8 cfs (0.929 cu m/s), 14.05 in/yr (357 mm/yr).

EXTREMES.--Current year: Maximum discharge, 744 cfs (21.1 cu m/s) Apr. 22, gage height, 9.64 ft (2.938 m); minimum daily, 14 cfs (0.40 cu m/s) Sept. 3-17, 20-27, 30.

Period of record: Maximum discharge, 744 cfs (21.1 cu m/s) Apr. 22, 1973, gage height, 9.64 ft (2.938 m); minimum daily discharge, 11 cfs (0.31 cu m/s) Oct. 23, 1968, Feb. 3, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	29	35	200	76	26	267	70	53	25	20	15
2	30	45	34	110	186	29	114	80	51	26	20	15
3	28	46	34	95	118	32	79	70	52	24	18	14
4	26	36	31	182	78	30	69	62	50	24	18	14
5	24	32	32	82	68	57	60	55	60	23	18	14
6	23	30	125	63	61	50	55	50	75	27	18	14
7	23	38	72	52	56	49	51	44	65	24	18	14
8	22	64	51	46	54	44	46	40	49	23	18	14
9	22	45	44	41	45	41	51	38	40	22	18	14
10	21	40	39	35	41	39	55	36	35	22	17	14
11	28	45	36	33	38	78	47	33	33	21	17	14
12	34	40	48	32	37	58	56	32	31	21	17	14
13	30	70	106	30	36	46	61	31	29	21	18	14
14	27	320	92	30	36	47	49	31	28	21	17	14
15	25	192	59	29	36	45	45	30	27	21	17	14
16	24	106	45	29	38	40	45	30	27	21	16	14
17	24	80	40	34	37	54	46	28	90	21	16	14
18	23	66	36	52	35	63	42	28	60	21	16	15
19	23	55	32	122	34	66	48	28	45	21	17	15
20	23	55	36	60	33	60	47	27	51	21	17	14
21	23	69	42	48	33	53	114	26	47	21	16	14
22	48	60	46	71	32	48	499	26	32	24	16	14
23	154	52	44	86	31	43	344	28	30	24	16	14
24	82	45	40	56	30	40	157	26	28	20	35	14
25	56	40	44	49	29	49	111	27	26	20	22	14
26	44	42	45	52	28	44	89	25	26	20	18	14
27	58	45	42	54	27	41	80	28	27	19	16	14
28	35	42	40	58	27	46	72	99	31	19	15	15
29	35	38	44	49	-----	76	65	81	27	19	15	15
30	33	36	423	45	-----	87	60	90	24	19	17	14
31	30	-----	551	46	-----	114	-----	75	-----	24	21	-----
TOTAL	1,095	1,903	2,388	1,971	1,380	1,595	2,924	1,374	1,249	679	558	426
MEAN	35.3	63.4	77.0	63.6	49.3	51.5	97.5	44.3	41.6	21.9	18.0	14.2
MAX	154	320	551	200	186	114	499	99	90	27	35	15
MIN	21	29	31	29	27	26	42	25	24	19	15	14
CFSM	1.11	2.00	2.43	2.01	1.56	1.62	3.08	1.40	1.31	.69	.57	.45
IN.	1.28	2.23	2.80	2.31	1.62	1.87	3.43	1.61	1.47	.80	.65	.50

CAL YR 1972 TOTAL 13,459 MEAN 36.8 MAX 551 MIN 14 CFSM 1.16 IN 15.79
WTR YR 1973 TOTAL 17,542 MEAN 48.1 MAX 551 MIN 14 CFSM 1.52 IN 20.59

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	1130	5.12	188	01-19	0430	5.22	165
11-14	0800	6.97	382	02-02	0930	5.88	228
12-31	0200	9.35	698	04-01	0900	7.03	355
01-04	0430	6.05	245	04-22	1600	9.64	744

ILLINOIS RIVER BASIN

05518000 Kankakee River at Shelby, Ind.

LOCATION.—Lat 41°10'58", long 87°20'33", in SW 1/4 NE 1/4 sec.33, T.32 N., R.8 W., Lake County, on right bank 25 ft (7.6 m) upstream from Monon Railroad bridge, 1 mile (2 km) south of Shelby, and 9 miles (14 km) upstream from Beaver Lake Creek.

DRAINAGE AREA.—1,779 sq mi (4,608 sq km), of which 201 sq mi (521 sq km) does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.—Water-stage recorder. Datum of gage is 628.13 ft (191.454 m) above mean sea level. Prior to Dec. 19, 1934, nonrecording gage at highway bridge about 400 ft (122 m) upstream. Dec. 19, 1934, to Oct. 4, 1965, water-stage recorder on left bank 50 ft (15 m) downstream, and Oct. 5, 1965, to Sept. 21, 1966, nonrecording gage on right bank 200 ft (61 m) upstream. All at same datum.

AVERAGE DISCHARGE.—51 years, 1,558 cfs (44.12 cu m/s), 11.89 in/yr (302 mm/yr).

EXTREMES.—Current year: Maximum discharge, 5,060 cfs (143 cu m/s) Jan. 6, gage height, 10.75 ft (3.277 m); minimum daily, 659 cfs (18.7 cu m/s) Sept. 16.

Period of record: Maximum discharge, 7,200 cfs (204 cu m/s) Dec. 21, 1927, gage height, 11.40 ft (3.475 m), site then in use, from rating curve extended above 3,000 cfs (85.0 cu m/s) by gage-height relation study with site below railroad bridge; minimum daily, 260 cfs (7.36 cu m/s) Jan. 13-15, 1954.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1005: 1928(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,010	3,080	3,250	4,860	3,590	2,200	3,830	3,660	3,360	1,910	1,680	845
2	4,040	3,020	3,130	4,940	3,650	2,200	4,180	3,540	3,360	1,810	1,820	821
3	4,060	3,030	3,020	4,940	3,750	2,260	4,300	3,410	3,370	1,750	1,780	797
4	4,070	2,970	2,910	4,970	3,780	2,350	4,330	3,260	3,330	1,730	1,630	779
5	4,060	2,930	2,860	5,040	3,770	2,490	4,310	3,130	3,280	1,730	1,480	767
6	4,050	2,860	2,960	5,040	3,750	2,680	4,260	2,990	3,300	1,710	1,390	758
7	3,960	2,830	3,160	4,990	3,700	2,840	4,220	2,860	3,400	1,640	1,300	731
8	3,780	2,840	3,150	4,910	3,650	2,970	4,130	2,760	3,400	1,560	1,230	725
9	3,540	2,840	3,080	4,830	3,530	3,030	4,010	2,670	3,320	1,490	1,190	719
10	3,300	2,790	3,060	4,770	3,410	3,050	3,910	2,560	3,120	1,430	1,160	716
11	3,080	2,800	2,920	4,550	3,260	3,090	3,780	2,420	2,900	1,380	1,150	713
12	3,020	2,820	2,860	4,350	3,120	3,160	3,680	2,360	2,700	1,320	1,140	704
13	2,950	2,800	3,060	4,260	2,980	3,170	3,660	2,260	2,580	1,260	1,100	686
14	2,860	3,110	3,270	4,010	2,880	3,190	3,620	2,190	2,440	1,230	1,070	677
15	2,820	3,740	3,400	3,720	2,800	3,230	3,540	2,130	2,310	1,200	1,040	668
16	2,800	3,960	3,430	3,520	2,720	3,220	3,470	2,070	2,180	1,180	1,020	659
17	2,770	3,970	3,450	3,440	2,630	3,220	3,440	2,020	2,370	1,130	998	674
18	2,680	3,980	3,310	3,490	2,550	3,240	3,400	1,960	2,860	1,100	974	704
19	2,520	4,040	3,220	3,660	2,480	3,270	3,400	1,930	2,990	1,070	944	731
20	2,370	4,100	3,120	3,730	2,480	3,300	3,390	1,920	3,060	1,080	929	722
21	2,250	4,170	3,110	3,700	2,500	3,330	3,470	1,890	3,090	1,130	926	707
22	2,220	4,130	3,130	3,700	2,490	3,350	3,850	1,860	3,000	1,250	905	698
23	2,600	4,050	3,170	3,750	2,460	3,360	4,440	1,830	2,810	1,490	878	683
24	3,150	3,940	3,210	3,750	2,410	3,340	4,680	1,900	2,600	1,580	926	665
25	3,360	3,810	3,270	3,730	2,370	3,350	4,630	1,990	2,430	1,580	971	674
26	3,450	3,730	3,330	3,720	2,330	3,370	4,490	1,990	2,290	1,500	968	746
27	3,480	3,670	3,390	3,730	2,280	3,330	4,360	2,010	2,200	1,430	926	752
28	3,490	3,580	3,380	3,740	2,220	3,260	4,230	2,230	2,120	1,330	887	722
29	3,470	3,470	3,360	3,740	-----	3,310	4,030	2,790	2,080	1,250	857	725
30	3,380	3,330	3,660	3,700	-----	3,450	3,820	2,970	2,010	1,230	848	725
31	3,250	-----	4,430	3,650	-----	3,540	-----	3,210	-----	1,350	851	-----
TOTAL	100,840	102,390	100,060	128,930	83,540	95,150	118,860	76,770	84,260	43,830	34,968	21,693
MEAN	3,253	3,413	3,228	4,159	2,984	3,069	3,962	2,476	2,809	1,414	1,128	723
MAX	4,070	4,170	4,430	5,040	3,780	3,540	4,680	3,660	3,400	1,910	1,820	845
MIN	2,220	2,790	2,860	3,440	2,220	2,200	3,390	1,830	2,010	1,070	848	659
CFSM	1.83	1.92	1.81	2.34	1.68	1.73	2.23	1.39	1.58	.79	.63	.41
IN.	2.11	2.14	2.09	2.70	1.75	1.99	2.49	1.61	1.76	.92	.73	.45
CAL YR 1972	TOTAL 869,036	MEAN 2,374	MAX 4,430	MIN 767	CFSM 1.33	IN 18.17						
WTR YR 1973	TOTAL 991,291	MEAN 2,716	MAX 5,040	MIN 659	CFSM 1.53	IN 20.73						

05519000 Singleton ditch at Schneider, Ind.

LOCATION.--Lat 41°12'44", long 87°26'44", in SW 1/4 NW 1/4 sec.22, T.32 N., R.9 W., Lake County, on left bank 15 ft (5 m) upstream from bridge on Ackerman Avenue, 0.5 mile (0.8 km) upstream from Bruce ditch, 1.5 miles (2.4 km) downstream from Cedar Creek, and 1.6 miles (2.6 km) north of Schneider.

DRAINAGE AREA.--123 sq mi (319 sq km).

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 623.67 ft (190.095 m) above mean sea level. Prior to Oct. 1, 1949, nonrecording gage at same site at datum 2.00 ft (0.610 m) higher. Oct. 1, 1949, to Aug. 13, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 101 cfs (2.860 cu m/s), 11.15 in/yr (283 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,230 cfs (34.8 cu m/s) Apr. 22, gage height, 11.37 ft (3.466 m); minimum daily, 22 cfs (0.62 cu m/s) Sept. 27, 28.

Period of record: Maximum discharge, 1,230 cfs (34.8 cu m/s) Apr. 22, 1973, gage height, 11.37 ft (3.466 m); minimum daily, 3.6 cfs (0.102 cu m/s) Sept. 7, 8, 10, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1915: 1956-59. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	156	201	1,040	215	114	762	211	254	90	106	37
2	206	228	194	903	394	122	632	247	196	86	86	35
3	182	248	187	732	432	167	504	234	183	85	68	33
4	161	198	178	748	343	190	406	201	177	91	60	32
5	146	186	170	615	294	246	325	176	232	99	57	31
6	133	168	351	450	268	278	269	158	452	81	54	30
7	123	190	294	360	246	269	236	151	420	73	51	29
8	116	286	229	288	229	259	212	146	270	70	50	28
9	105	233	198	242	197	218	205	138	204	68	48	27
10	98	207	181	209	180	202	250	129	162	67	48	27
11	153	243	162	186	162	323	227	118	132	63	48	26
12	227	222	222	171	151	361	268	113	120	60	47	26
13	177	258	487	158	142	259	452	106	111	59	46	25
14	151	947	428	147	137	248	325	104	104	58	46	24
15	135	967	309	136	137	248	257	96	98	55	44	23
16	129	769	253	133	127	210	240	93	99	53	42	24
17	119	600	240	182	128	247	268	91	370	51	42	25
18	110	491	220	290	127	322	231	88	259	50	40	26
19	110	403	200	532	120	297	237	93	182	49	40	25
20	108	381	198	402	136	260	231	85	448	52	40	24
21	106	416	218	295	153	228	384	81	381	54	36	24
22	236	376	230	390	146	201	988	85	239	105	34	24
23	571	313	218	499	137	181	1,000	100	187	95	34	24
24	553	273	196	384	127	167	993	98	158	87	47	24
25	335	256	196	303	124	172	658	97	125	78	51	24
26	262	273	211	296	122	226	524	96	115	114	43	23
27	224	292	205	288	118	196	400	107	111	101	40	22
28	203	258	197	297	114	176	295	387	114	78	39	22
29	203	224	207	262	-----	277	243	401	103	67	35	23
30	184	207	912	228	-----	409	226	429	98	86	36	23
31	166	-----	1,130	209	-----	399	-----	368	-----	108	39	-----
TOTAL	6,005	10,269	8,822	11,375	5,206	7,472	12,248	5,027	6,104	2,333	1,497	790
MEAN	194	342	285	367	186	241	408	162	203	75.3	48.3	26.3
MAX	571	967	1,130	1,040	432	409	1,000	429	452	114	106	37
MIN	98	156	162	133	114	114	205	81	98	49	34	22
CFSM	1.58	2.78	2.32	2.98	1.51	1.96	3.32	1.32	1.65	.61	.39	.21
IN.	1.82	3.11	2.67	3.44	1.57	2.26	3.70	1.52	1.85	.71	.45	.24

CAL YR 1972 | TOTAL 66,337 MEAN 181 MAX 1,130 MIN 40 CFSM 1.47 IN 20.06
WTR YR 1973 | TOTAL 77,148 MEAN 211 MAX 1,130 MIN 22 CFSM 1.72 IN 23.33

PEAK DISCHARGE (BASE, 730 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	2230	10.36	1,070	04-01	1000	8.88	830
12-30	1700	11.31	1,220	04-22	1200	11.37	1,230

ILLINOIS RIVER BASIN

05520000 Singleton ditch at Illinois, Ill.

LOCATION.—Lat 41°11'20", long 87°31'35", in SW 1/4 NW 1/4 sec.8, T.31 N., R.15 E., Kankakee County, Illinois, 50 ft (15 m) downstream from county highway bridge and Indiana-Illinois State line, at Illinois, and beside the Cleveland, Cincinnati, Chicago, and St. Louis Railway.

DRAINAGE AREA.—220 sq mi (570 sq km).

PERIOD OF RECORD.—October 1944 to current year.

GAGE.—Water-stage recorder. Datum of gage is 620.33 ft (189.077 m) above mean sea level. Prior to Aug. 28, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—29 years, 176 cfs (4.984 cu m/s), 10.86 in/yr (276 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,000 cfs (56.6 cu m/s) Apr. 22, gage height, 10.33 ft (3.149 m); minimum daily, 41 cfs (1.16 cu m/s) Sept. 27.

Period of record: Maximum discharge, 2,040 cfs (57.8 cu m/s) Feb. 14, 23, 1959; maximum gage height, 10.40 ft (3.170 m) June 13, 1972; minimum daily discharge, 6.0 cfs (0.17 cu m/s) Sept. 8, 9, 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1338: 1948(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	477	262	350	1,880	355	201	1,380	368	463	161	188	62
2	361	350	339	1,650	652	212	1,160	427	350	153	152	55
3	295	425	325	1,350	727	284	882	427	303	149	123	53
4	265	348	305	1,350	585	330	703	355	291	158	108	51
5	239	305	287	1,120	515	419	585	302	364	171	100	51
6	222	276	525	856	463	493	487	271	880	144	95	51
7	207	292	509	679	419	475	415	257	861	133	89	49
8	197	463	384	555	384	467	364	251	567	125	86	49
9	180	382	328	400	345	370	350	239	403	123	83	48
10	170	328	295	380	300	336	459	224	316	121	83	48
11	230	375	384	350	271	561	409	207	262	117	82	47
12	366	359	451	315	254	654	469	198	236	109	81	45
13	286	372	947	285	241	469	773	189	215	105	77	45
14	246	1,540	811	270	235	429	577	185	198	103	77	43
15	216	1,680	553	260	235	429	445	177	188	100	76	43
16	207	1,450	450	246	219	357	401	171	189	97	73	42
17	192	1,130	410	314	220	391	467	165	734	95	72	48
18	179	853	390	505	218	543	393	161	469	94	68	50
19	177	696	360	875	209	513	390	165	319	90	66	46
20	173	643	348	674	228	451	390	161	727	95	69	45
21	173	714	361	523	254	381	632	152	639	99	63	43
22	325	650	384	648	243	328	1,670	153	419	200	62	43
23	897	563	370	849	231	292	1,620	188	318	189	61	46
24	745	493	348	657	221	270	1,390	179	268	179	75	43
25	547	457	345	543	222	271	1,150	174	228	156	79	43
26	437	487	359	535	221	375	923	179	207	213	68	42
27	366	525	346	521	209	337	731	185	198	189	63	41
28	328	463	334	531	200	292	577	650	198	137	61	42
29	323	395	339	461	-----	487	459	827	183	119	58	44
30	307	364	1,380	397	-----	731	403	725	171	159	59	43
31	278	-----	1,940	361	-----	659	-----	663	-----	218	65	-----
TOTAL	9,611	17,640	15,257	20,340	8,876	12,807	21,054	8,975	11,164	4,301	2,562	1,401
MEAN	310	588	492	656	317	413	702	290	372	139	82.6	46.7
MAX	897	1,680	1,940	1,880	727	731	1,670	827	880	218	188	62
MIN	170	262	287	246	200	201	350	152	171	90	58	41
CFSM	1.41	2.67	2.24	2.98	1.44	1.88	3.19	1.32	1.69	.63	.38	.21
IN.	1.63	2.98	2.58	3.44	1.50	2.17	3.56	1.52	1.89	.73	.43	.24

CAL YR 1972 TOTAL 123,693 MEAN 338 MAX 1,940 MIN 87 CFSM 1.54 IN 20.92
WTR YR 1973 TOTAL 133,988 MEAN 367 MAX 1,940 MIN 41 CFSM 1.67 IN 22.66

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	2100	9.53	1,750	04-22	1200	10.33	2,000
12-31	1900	10.19	1,960	06-06	1700	7.59	1,170
04-01	1200	8.66	1,500				

05520500 Kankakee River at Mokence, Ill.

LOCATION.--Lat 41°09'36", long 87°40'07", in NE 1/4 sec.24, T.31 N., R.13 E., Kankakee County, on right bank at Hill Street in Mokence, 0.2 mile (0.3 km) downstream from bridge on State Highways 1 and 17, and 1.2 miles (1.9 km) upstream from Tower Creek.

DRAINAGE AREA.--2,340 sq mi (6,060 sq km), approximately.

PERIOD OF RECORD.--February to December 1905, February to July 1906, December 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 609.18 ft (185.68 m) above mean sea level. Prior to Aug. 1, 1938, nonrecording gage at site 0.2 mile (0.3 km) upstream at datum 1.00 ft (0.30 m) higher. Aug. 1, 1938, to Aug. 8, 1969, water-stage recorder at present site at datum 1.00 ft (0.30 m) higher.

AVERAGE DISCHARGE.--58 years (1915-73), 1,896 cfs (53.7 cu m/s), 11.00 in/yr (279 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,380 cfs (237 cu m/s) Dec. 31, gage height, 5.25 ft (1.600 m); minimum, 768 cfs (21.7 cu m/s) Sept. 15-17.

Period of record: Maximum discharge, 10,100 cfs (286 cu m/s) Apr. 25, 1950, gage height, 5.06 ft (1.542 m), datum then in use; maximum gage height observed, 8.09 ft (2.466 m) Jan. 25, 1930, site and datum then in use (ice jam); minimum discharge observed, 306 cfs (8.67 cu m/s) Sept. 1, 16, 17, 1919.

REMARKS.--Records good except those for winter periods, which are poor.

REVISIONS (WATER YEARS).--WSP 1238: 1916, 1930. WSP 1308: 1915(M), 1917(M), 1919(M), 1922(M), 1926(M), 1934-35(M), 1938(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,830	3,800	3,890	7,630	4,330	2,530	6,050	4,620	4,090	2,490	1,900	970
2	4,720	3,870	3,760	7,440	4,690	2,520	6,000	4,530	3,980	2,390	1,980	944
3	4,630	3,930	3,620	7,260	4,960	2,640	5,810	4,390	3,910	2,320	2,030	919
4	4,570	3,780	3,480	7,370	5,200	2,760	5,620	4,100	3,890	2,320	1,990	893
5	4,520	3,680	3,360	7,110	5,300	2,980	5,400	3,840	4,010	2,270	1,860	878
6	4,490	3,560	3,630	7,000	5,100	3,190	5,160	3,620	5,020	2,200	1,710	865
7	4,430	3,540	3,690	6,500	4,800	3,350	4,960	3,460	4,850	2,120	1,570	843
8	4,380	3,720	3,680	5,940	4,410	3,500	4,800	3,320	4,310	2,040	1,470	830
9	4,270	3,640	3,640	5,800	4,270	3,510	4,770	3,180	4,020	1,950	1,410	822
10	4,100	3,560	3,550	5,600	4,110	3,560	4,870	3,050	3,800	1,850	1,350	815
11	4,040	3,600	3,710	5,400	3,920	4,050	4,710	2,930	3,610	1,760	1,370	813
12	4,110	3,560	3,510	5,200	3,740	4,250	4,770	2,820	3,410	1,690	1,350	814
13	3,770	3,650	4,550	4,900	3,580	3,980	5,020	2,720	3,270	1,600	1,310	800
14	3,520	5,520	4,620	4,600	3,430	3,940	4,720	2,620	3,080	1,540	1,270	783
15	3,370	6,170	4,270	4,290	3,320	3,920	4,440	2,530	2,940	1,480	1,230	771
16	3,280	5,890	4,200	4,670	3,170	3,800	4,300	2,470	2,840	1,440	1,190	770
17	3,190	5,760	4,150	4,740	3,060	3,870	4,300	2,410	3,810	1,400	1,170	783
18	3,140	5,460	4,100	4,630	2,990	4,090	4,160	2,380	3,390	1,350	1,130	803
19	3,100	5,200	4,050	4,960	2,900	4,070	4,130	2,400	3,360	1,310	1,100	823
20	3,010	5,140	4,000	4,770	2,870	3,970	4,150	2,370	4,470	1,330	1,080	832
21	2,900	5,280	3,860	4,580	2,870	3,870	4,720	2,350	4,540	1,440	1,060	820
22	3,130	5,200	3,790	4,760	2,850	3,800	6,940	2,370	4,140	1,950	1,050	815
23	3,850	5,030	3,750	5,170	2,830	3,740	7,020	2,420	3,840	2,020	1,030	803
24	3,860	4,840	3,740	4,930	2,780	3,690	6,810	2,400	3,570	2,130	1,050	792
25	3,890	4,700	3,770	4,720	2,740	3,760	6,700	2,470	3,290	2,180	1,100	785
26	4,000	4,670	3,840	4,680	2,680	3,970	6,350	2,500	3,070	2,170	1,110	811
27	4,030	4,620	3,870	4,650	2,620	3,940	5,900	2,540	2,930	2,030	1,090	855
28	4,030	4,430	3,880	4,660	2,560	3,870	5,450	3,240	2,830	1,790	1,040	853
29	4,030	4,230	3,950	4,570	-----	4,210	5,080	3,640	2,690	1,660	998	857
30	4,010	4,050	6,420	4,470	-----	4,630	4,850	4,210	2,570	1,730	975	859
31	3,900	-----	8,200	4,380	-----	4,720	-----	4,360	-----	1,910	989	-----
TOTAL	121,100	134,080	126,530	167,380	102,080	114,680	157,960	96,260	109,530	57,860	40,962	25,021
MEAN	3,906	4,469	4,082	5,399	3,646	3,699	5,265	3,105	3,651	1,866	1,321	834
MAX	4,830	6,170	8,200	7,630	5,300	4,720	7,020	4,620	5,020	2,490	2,030	970
MIN	2,900	3,540	3,360	4,290	2,560	2,520	4,130	2,350	2,570	1,310	975	770
CFSM	1.67	1.91	1.74	2.31	1.56	1.58	2.25	1.33	1.56	.80	.56	.36
IN.	1.93	2.13	2.01	2.66	1.62	1.82	2.51	1.53	1.74	.92	.65	.40
CAL YR 1972	TOTAL 1,130,608	MEAN 3.089	MAX 8,200	MIN 927	CFSM 1.32	IN 17.97						
WTR YR 1973	TOTAL 1,253,443	MEAN 3.434	MAX 8,200	MIN 770	CFSM 1.47	IN 19.93						

ILLINOIS RIVER BASIN

05521000 Iroquois River at Rosebud, Ind.

LOCATION.—Lat 41°02'00", long 87°10'49", in NW 1/4 SW 1/4 sec.24, T.30 N., R.7 W., Jasper County, 100 ft (30 m) downstream from bridge on county road, 0.5 mile (0.8 km) north of Rosebud, 0.5 mile (0.8 km) downstream from confluence of Swain and Dexter ditches, 1.5 miles (2.4 km) upstream from Davidson ditch, and 2 miles (3 km) east of Parr.

DRAINAGE AREA.—35.6 sq mi (92.2 sq km).

PERIOD OF RECORD.—July 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 661.47 ft (201.616 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1953, nonrecording gage on downstream side of county road bridge at same datum.

AVERAGE DISCHARGE.—25 years, 25.3 cfs (0.716 cu m/s), 9.65 in/yr (245 mm/yr).

EXTREMES.—Current year: Maximum discharge, 288 cfs (8.16 cu m/s) Dec. 31, gage height, 7.04 ft (2.146 m); minimum daily, 5.4 cfs (0.15 cu m/s) Sept. 21.

Period of record: Maximum discharge, 422 cfs (12.0 cu m/s) Apr. 4, 1950; maximum gage height, 8.86 ft (2.700 m) Feb. 10, 1959; minimum daily discharge, 0.5 cfs (0.014 cu m/s) Oct. 11, 12, 19, 1964.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1338: 1950-53. WSP 1728: 1959-60(M). WSP 1915: 1949-60. WSP 2115: drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	51	51	200	56	30	204	53	44	25	29	6.9
2	60	87	48	138	79	33	157	58	37	123	24	6.7
3	51	69	45	111	79	42	127	53	37	26	24	6.4
4	44	59	43	151	67	43	101	45	38	29	22	7.4
5	43	53	43	98	62	64	83	41	49	25	20	7.2
6	41	49	102	71	57	63	71	39	88	22	19	6.3
7	39	56	72	57	52	58	62	38	72	20	18	7.2
8	36	59	58	50	48	50	56	38	52	18	16	6.6
9	33	53	51	45	44	46	57	34	43	17	15	6.6
10	32	51	46	41	41	52	65	33	38	15	14	6.3
11	53	49	38	39	38	94	57	31	34	14	19	6.0
12	66	46	59	36	35	78	72	31	33	13	46	6.0
13	51	66	115	34	34	59	79	30	73	12	22	5.8
14	44	174	81	33	35	66	65	29	56	11	17	5.8
15	38	145	63	33	38	61	57	28	43	11	15	5.5
16	38	103	54	34	38	51	57	28	42	11	13	5.5
17	34	82	46	42	50	81	64	27	94	9.3	12	6.4
18	33	69	43	51	31	85	59	27	83	9.3	11	6.1
19	33	63	43	68	31	73	71	28	56	9.0	11	5.7
20	33	63	51	54	36	62	74	29	56	9.8	11	5.5
21	34	70	58	49	38	53	142	27	45	11	9.8	5.4
22	86	68	58	67	35	47	248	26	36	14	8.7	6.9
23	162	61	54	83	33	44	230	28	31	13	8.7	6.1
24	112	55	53	61	31	42	157	26	29	21	10	6.0
25	82	55	58	56	32	55	109	26	26	17	9.1	7.4
26	68	61	57	57	32	84	83	26	25	14	8.5	7.5
27	59	61	53	61	30	61	67	25	29	12	7.9	6.6
28	57	55	53	69	29	53	56	35	47	10	7.5	6.9
29	56	50	64	65	-----	95	50	57	34	12	6.9	8.0
30	51	49	222	58	-----	96	52	52	28	20	7.7	7.5
31	49	-----	272	53	-----	107	-----	51	-----	38	7.4	-----
TOTAL	1,696	2,032	2,154	2,064	1,211	1,928	2,832	1,099	1,398	511.4	470.2	194.2
MEAN	54.7	67.7	69.5	66.6	43.3	62.2	94.4	35.5	46.6	16.5	15.2	6.47
MAX	162	174	272	200	79	107	248	58	94	38	46	8.0
MIN	32	46	38	33	29	30	50	25	25	9.0	6.9	5.4
CFSM	1.54	1.90	1.95	1.87	1.22	1.75	2.65	1.00	1.31	.46	.43	.18
IN.	1.77	2.12	2.25	2.16	1.27	2.01	2.96	1.15	1.46	.53	.49	.20

CAL YR 1972 TOTAL 16,350.3 MEAN 44.7 MAX 272 MIN 4.8 CFSM 1.26 IN 17.09
WTR YR 1973 TOTAL 17,589.8 MEAN 48.2 MAX 272 MIN 5.4 CFSM 1.35 IN 18.38

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	0730	5.36	174	01-04	0500	5.23	166
11-14	1145	5.50	182	04-01	0845	6.04	214
12-31	0330	7.04	288	04-22	1915	6.91	278

05522000 Iroquois River near North Marion, Ind.

LOCATION.--Lat 40°58'12", long 87°06'50", in NE 1/4 NW 1/4 sec.16, T.29 N., R.6 W., Jasper County, on downstream side of county highway bridge, 1.2 miles (1.9 km) upstream from Ryan ditch, 2 miles (3 km) east of North Marion, and 3.5 miles (5.6 km) northeast of Rensselaer.

DRAINAGE AREA.--144 sq mi (373 sq km).

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 646.68 ft (197.108 m) above mean sea level. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years (1949 to current year), 123 cfs (3.483 cu m/s), 11.60 in/yr (295 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,210 cfs (34.3 cu m/s) Jan. 1, gage height, 12.19 ft (3.716 m); minimum daily, 19 cfs (0.54 cu m/s) Sept. 16.

Period of record: Maximum discharge, 2,040 cfs (57.8 cu m/s) June 10, 1958, gage height, 15.09 ft (4.599 m); minimum daily, 1.6 cfs (0.045 cu m/s) Sept. 15, 1964.

REMARKS.--Records fair. Water can be diverted either way between Oliver ditch, an upstream tributary, and Ryan ditch, which enters below station.

REVISIONS.--WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	518	204	225	1,190	260	134	844	235	274	92	341	36
2	425	225	217	1,130	400	145	1,040	234	216	79	276	31
3	312	337	204	978	489	175	1,030	237	182	76	157	28
4	233	336	191	922	448	212	912	229	172	100	107	29
5	200	263	188	847	381	248	754	202	225	93	87	29
6	180	220	310	677	331	359	597	189	290	77	76	26
7	168	211	383	490	292	356	447	183	365	64	69	25
8	152	246	313	380	271	327	354	177	360	57	60	25
9	133	247	244	300	239	268	295	172	248	51	46	23
10	118	226	210	250	220	253	307	162	188	44	47	22
11	179	222	168	210	198	347	320	150	161	45	96	25
12	275	212	212	195	171	474	310	143	143	48	337	23
13	247	219	415	176	168	418	397	136	176	44	283	22
14	204	510	480	166	160	345	415	131	208	41	150	20
15	168	699	395	164	173	340	356	127	204	36	119	20
16	155	685	275	160	159	300	300	115	190	39	86	19
17	143	590	223	188	187	326	340	112	204	33	68	20
18	124	463	210	226	189	441	360	108	300	31	56	24
19	122	364	199	312	147	452	345	106	318	29	54	22
20	115	313	221	325	169	406	354	106	275	47	58	22
21	118	327	258	257	191	338	480	105	205	52	48	21
22	187	342	277	255	181	272	872	98	157	97	41	23
23	441	317	246	365	171	232	1,140	101	138	128	37	23
24	596	275	235	362	151	211	1,180	106	120	107	57	21
25	545	251	246	295	145	213	1,030	105	107	92	69	23
26	427	264	256	265	148	345	823	106	96	68	56	26
27	334	291	243	268	141	365	619	105	88	58	44	21
28	268	279	240	296	134	293	391	164	139	48	39	22
29	247	246	255	321	-----	338	282	242	130	46	35	35
30	235	231	549	299	-----	478	242	295	110	72	38	36
31	216	-----	1,010	265	-----	504	-----	300	-----	237	42	-----
TOTAL	7,785	9,615	9,098	12,534	6,314	9,915	17,136	4,981	5,989	2,131	3,079	742
MEAN	251	321	293	404	226	320	571	161	200	68.7	99.3	24.7
MAX	596	699	1,010	1,190	489	504	1,180	300	365	237	341	36
MIN	115	204	168	160	134	134	242	98	88	29	35	19
CFSM	1.74	2.23	2.03	2.81	1.57	2.22	3.97	1.12	1.39	.48	.69	.17
IN.	2.01	2.48	2.35	3.24	1.63	2.56	4.43	1.29	1.55	.55	.80	.19

CAL YR 1972 / TOTAL 73,322 MEAN 200 MAX 1,010 MIN 28 CFSM 1.39 IN 18.94
WTR YR 1973 / TOTAL 89,319 MEAN 245 MAX 1,190 MIN 19 CFSM 1.70 IN 23.07

PEAK DISCHARGE (BASE, 420 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	1100	8.41	604	03-12	1300	7.35	481
11-15	1800	9.37	717	03-19	0200	7.15	457
12-14	0400	7.44	490	04-02	2200	11.48	1,160
01-01	1500	12.19	1,210	04-24	0200	12.14	1,200
02-03	1200	7.46	494				

05522500 Iroquois River at Rensselaer, Ind.

LOCATION.--Lat 40°56'00", long 87°07'44", in NW 1/4 SE 1/4 sec.29, T.29 N., R.6 W., Jasper County, on right bank 20 ft (6 m) downstream from bridge on State Highway 114, 0.8 mile (1.3 km) east of Rensselaer, 1.5 miles (2.4 km) downstream from Ryan ditch, and 5.5 miles (8.8 km) upstream from Slough Creek.

DRAINAGE AREA.--203 sq mi (526 sq km).

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 642.29 ft (195.770 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 8, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 159 cfs (4.503 cu m/s), 10.64 in/yr (270 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,360 cfs (38.5 cu m/s) Jan. 1, gage height, 12.70 ft (3.871 m); minimum daily, 27 cfs (0.76 cu m/s) Sept. 16, 24.

Period of record: Maximum discharge, 2,550 cfs (72.2 cu m/s) June 10, 1958, gage height, 16.54 ft (5.041 m); minimum daily, 2.2 cfs (0.062 cu m/s) Sept. 9, 15, 16, 1964.

REMARKS.--Records good.

REVISIONS.--WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	687	221	257	1,360	343	159	1,110	306	400	104	520	57
2	517	322	244	1,340	546	173	1,240	318	320	92	386	52
3	366	403	227	1,200	634	224	1,200	318	250	91	199	42
4	269	360	210	1,130	573	279	1,060	283	230	126	133	38
5	225	297	206	1,100	475	366	885	235	220	109	104	39
6	201	252	382	950	413	472	727	215	450	90	89	35
7	184	238	445	760	353	445	559	204	510	78	82	33
8	167	288	364	570	325	403	422	199	510	61	69	33
9	145	288	282	450	278	340	365	190	400	63	53	31
10	132	258	233	350	244	351	400	180	350	52	53	30
11	216	250	181	255	217	510	391	170	230	56	113	33
12	348	238	243	210	195	631	399	160	200	48	456	30
13	300	254	504	177	189	527	525	150	250	49	367	30
14	238	682	578	161	184	448	513	140	280	45	208	29
15	191	891	462	163	196	442	421	130	270	39	185	28
16	176	853	297	168	179	380	378	125	250	48	129	27
17	160	716	247	210	175	475	450	120	290	38	98	29
18	141	554	220	284	201	615	445	120	400	36	79	35
19	137	425	205	399	169	593	430	140	420	33	74	31
20	130	369	243	400	194	508	465	145	400	51	76	29
21	132	391	301	323	228	413	685	135	239	64	63	28
22	217	404	308	330	213	340	1,130	125	196	104	51	28
23	570	374	279	457	194	289	1,330	120	167	149	48	30
24	716	325	262	438	173	262	1,310	120	150	120	66	27
25	634	295	280	367	167	299	1,140	125	129	104	81	28
26	491	315	287	340	170	475	927	135	116	78	71	33
27	374	345	271	347	163	452	730	170	107	68	66	29
28	305	330	267	384	156	364	517	250	174	57	60	28
29	279	289	299	404	-----	453	367	340	155	54	55	46
30	263	267	765	373	-----	636	317	380	123	82	57	50
31	236	-----	1,260	335	-----	670	-----	420	-----	365	66	-----
TOTAL	9,147	11,494	10,609	15,735	7,547	12,994	20,838	6,168	8,186	2,554	4,157	1,018
MEAN	295	383	342	508	270	419	695	199	273	82.4	134	33.9
MAX	716	891	1,260	1,360	634	670	1,330	420	510	365	520	57
MIN	130	221	181	161	156	159	317	120	107	33	48	27
CFSM	1.45	1.89	1.68	2.50	1.33	2.06	3.42	.98	1.34	.41	.66	.17
IN.	1.68	2.11	1.94	2.88	1.38	2.38	3.82	1.13	1.50	.47	.76	.19

CAL YR 1972 TOTAL 90,405 MEAN 247 MAX 1,260 MIN 36 CFMS 1.22 IN 16.57
WTR YR 1973 TOTAL 110,447 MEAN 303 MAX 1,360 MIN 27 CFMS 1.49 IN 20.24

NOTE.--No gage-height record May 10 to June 20.

05523000 Bice ditch near South Marion, Ind.

LOCATION.—Lat 40°52'00", long 87°05'32", in NE 1/4 NW 1/4 sec.22, T.28 N., R.6 W., Jasper County, on left bank at upstream side of bridge on State Highway 16, 2 miles (3 km) upstream from Slough Creek, 3 miles (5 km) southeast of South Marion, and 5 miles (8 km) southeast of Rensselaer.

DRAINAGE AREA.—21.8 sq mi (56.5 sq km).

PERIOD OF RECORD.—December 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 651.30 ft (198.516 m) above mean sea level. Prior to Aug. 5, 1955, nonrecording gage, and Aug. 5, 1955, to Sept. 30, 1965, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.—24 years (1949 to current year), 16.6 cfs (0.470 cu m/s), 10.34 in/yr (263 mm/yr).

EXTREMES.—Current year: Maximum discharge, 514 cfs (14.6 cu m/s) Apr. 22, gage height, 7.89 ft (2.405 m); minimum daily, 0.68 cfs (0.019 cu m/s) July 17-19.

Period of record: Maximum discharge, 958 cfs (27.1 cu m/s) Dec. 21, 1967, gage height, 10.89 ft (3.319 m); no flow at times during 1952, 1955, and 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1508: 1956. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	72	27	160	40	12	271	15	27	3.6	162	1.0
2	41	113	23	96	76	16	127	19	19	3.2	50	1.0
3	31	61	20	79	63	25	93	16	16	3.0	31	1.4
4	26	44	14	116	44	26	64	13	35	3.6	23	1.4
5	22	34	19	61	38	80	47	11	95	3.6	16	1.5
6	19	29	91	34	31	63	35	10	124	2.8	11	1.3
7	16	33	47	21	27	51	27	9.7	53	2.5	6.2	1.4
8	14	29	32	15	26	35	21	10	31	2.2	4.6	1.4
9	10	25	26	11	18	34	24	9.0	19	2.2	3.8	1.5
10	9.0	26	20	8.0	13	52	27	8.4	13	2.0	3.2	1.5
11	64	25	17	6.5	11	125	20	7.1	10	1.5	3.4	1.3
12	133	22	73	5.9	10	73	43	6.8	11	.90	4.2	1.3
13	68	115	99	5.6	8.7	50	39	6.2	13	.75	3.0	1.4
14	46	195	55	5.6	9.7	114	28	5.9	8.0	.75	18	1.7
15	34	118	35	5.6	13	73	22	5.4	7.4	.82	21	1.4
16	27	79	19	6.2	11	50	29	5.6	6.8	.75	9.7	1.3
17	21	57	15	12	9.7	122	38	5.2	14	.68	5.9	1.5
18	15	46	14	21	8.7	88	32	5.0	12	.68	4.4	1.5
19	14	41	17	43	8.4	59	39	8.0	13	.68	3.6	1.1
20	13	47	22	28	13	46	56	7.1	14	2.5	3.0	1.3
21	13	54	29	22	14	33	148	6.2	11	5.2	2.2	1.3
22	22	47	31	35	12	27	348	5.9	7.7	7.7	1.9	1.4
23	158	37	27	45	10	23	190	5.6	6.5	5.9	1.9	1.3
24	116	31	29	30	8.7	21	89	5.2	6.5	6.8	2.0	1.3
25	73	32	34	27	10	59	52	6.8	5.4	5.2	1.7	1.4
26	52	43	31	30	11	82	37	5.9	5.4	3.8	1.5	1.5
27	40	42	27	36	9.7	46	26	6.8	5.6	3.4	1.4	1.4
28	33	36	23	50	10	34	18	23	5.2	1.9	1.3	1.4
29	33	29	40	43	-----	46	15	52	4.6	1.1	1.1	1.7
30	32	29	215	33	-----	44	15	51	4.2	3.0	1.5	1.7
31	26	-----	350	27	-----	84	-----	43	-----	156	1.4	-----
TOTAL	1,279.0	1,591	1,526	1,118.4	564.6	1,693	2,020	394.8	603.3	238.71	404.9	41.6
MEAN	41.3	53.0	49.2	36.1	20.2	54.6	67.3	12.7	20.1	7.70	13.1	1.39
MAX	158	195	350	160	76	125	348	52	124	156	162	1.7
MIN	9.0	22	14	5.6	8.4	12	15	5.0	4.2	.68	1.1	1.0
CFSM	1.89	2.43	2.26	1.66	.93	2.50	3.09	.58	.92	.35	.60	.06
IN.	2.18	2.71	2.60	1.91	.96	2.89	3.45	.67	1.03	.41	.69	.07

CAL YR 1972 TOTAL 9,769.92 MEAN 26.7 MAX 350 MIN .68 CFSM 1.22 IN 16.67
WTR YR 1973 TOTAL 11,475.31 MEAN 31.4 MAX 350 MIN .68 CFSM 1.44 IN 19.58

PEAK DISCHARGE (BASE, 340 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-31	unknown	unknown	500	04-22	1400	7.89	514
04-01	0400	6.84	384				

05523500 Slough Creek near Collegeville, Ind.

LOCATION.—Lat 40°53'30", long 87°09'17", in SE 1/4 NE 1/4 sec.12, T.28 N., R.7 W., Jasper County, on right bank at downstream side of bridge on State Highway 53, 1.5 miles (2.4 km) south of Collegeville, 2.5 miles (4.0 km) upstream from mouth, and 2.8 miles (4.5 km) downstream from Bice ditch.

DRAINAGE AREA.—83.7 sq mi (216.8 sq km).

Period of record.—July 1948 to December 1951, October 1952 to current year. Prior to October 1965, published as Big Slough Creek near Collegeville.

GAGE.—Water-stage recorder. Datum of gage is 634.75 ft (193.472 m) above mean sea level. Prior to Aug. 5, 1955, nonrecording gage and Aug. 5, 1955, to Oct. 8, 1958; water-stage recorder at same site at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.—24 years (1948-51, 1952 to current year), 68.9 cfs (1.951 cu m/s), 11.18 in/yr (284 mm/yr).

EXTREMES.—Current year: Maximum discharge, 1,600 cfs (45.3 cu m/s) Apr. 22, gage height, 13.81 ft (4.209 m); from peak-stage indicator; maximum gage height, 14.03 ft (4.276 m) Dec. 30 or 31, backwater from Iroquois River; minimum daily, 17 cfs (0.48 cu m/s) Jan. 12-14.

Period of record: Maximum discharge, 2,390 cfs (67.7 cu m/s) Dec. 22, 1967, gage height, 16.88 ft (5.145 m); minimum daily, 0.7 cfs (0.020 cu m/s) Dec. 20-26, 1963.

REMARKS.—Records poor.

REVISIONS (WATER YEARS).—WSP 1558: 1955(M), 1956(M), 1957. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	50	80	310	229	54	1,160	80	70	22	847	10
2	160	400	75	200	453	69	530	130	60	21	210	9.4
3	120	210	72	150	250	106	370	110	55	21	120	8.7
4	90	130	68	200	175	116	260	96	100	22	64	8.4
5	72	95	66	130	140	306	200	86	650	22	52	8.1
6	60	80	348	80	115	190	170	77	425	19	42	8.1
7	53	105	150	48	100	150	160	70	230	18	34	7.8
8	44	130	70	35	85	130	145	66	130	16	29	7.8
9	34	110	47	26	68	140	135	63	92	15	24	7.8
10	32	97	36	21	45	300	165	58	70	14	21	7.8
11	30	100	34	18	45	556	192	51	62	13	23	7.6
12	450	93	157	17	46	225	250	48	56	12	23	7.3
13	200	87	538	17	49	190	317	45	81	11	20	7.0
14	120	600	175	17	54	565	175	43	61	11	30	7.8
15	90	350	75	18	67	235	135	40	50	10	51	7.3
16	70	210	60	19	108	210	190	40	46	10	31	7.0
17	55	140	58	30	60	581	275	37	99	9.7	23	7.8
18	44	105	62	55	50	400	200	36	130	9.4	19	7.8
19	40	88	68	230	43	250	215	44	75	9.0	17	7.3
20	38	165	112	105	73	190	350	60	60	12	16	7.0
21	70	250	115	80	85	140	680	42	46	18	14	7.0
22	500	180	100	150	74	120	1,300	37	44	20	13	7.0
23	180	130	108	250	60	100	550	35	38	24	13	6.7
24	110	100	152	115	45	80	310	33	35	24	15	6.7
25	80	84	100	90	54	186	235	42	32	24	13	7.3
26	64	130	80	100	58	454	170	37	30	19	12	7.3
27	57	115	68	150	51	225	130	35	29	18	11	6.7
28	54	105	62	250	49	150	100	300	29	14	10	6.4
29	52	95	60	175	-----	160	80	230	26	12	10	7.6
30	50	88	210	125	-----	170	90	150	24	18	12	7.6
31	48	-----	550	100	-----	427	-----	100	-----	531	12	-----
TOTAL	3,297	4,622	3,956	3,311	2,731	7,175	9,239	2,321	2,935	1,019.1	1,831	228.1
MEAN	106	154	128	107	97.5	231	308	74.9	97.8	32.9	59.1	7.60
MAX	500	600	550	310	453	581	1,300	300	650	531	847	10
MIN	30	50	34	17	43	54	80	33	24	9.0	10	6.4
CFSM	1.27	1.84	1.53	1.28	1.16	2.76	3.68	.89	1.17	.39	.71	.09
IN.	1.47	2.05	1.76	1.47	1.21	3.19	4.11	1.03	1.30	.45	.81	.10

CAL YR 1972 TOTAL 32,687.8 MEAN 89.3 MAX 968 MIN 5.2 CFSM 1.07 IN 14.53
WTR YR 1973 TOTAL 42,665.2 MEAN 117 MAX 1,300 MIN 6.4 CFSM 1.40 IN 18.96

NOTE.—No gage-height record Oct. 10 to Nov. 27, Dec. 27 to Jan. 29, and Apr. 18 to May 7.

05524000 Carpenter Creek at Egypt, Ind.

LOCATION.—Lat 40°51'58", long 87°12'20", in SE 1/4 SW 1/4 sec.15, T.28 N., R.7 W., Jasper County, on left bank at downstream side of bridge on State Highway 16, 0.5 mile (0.8 km) north of Egypt, 2.8 miles (4.5 km) upstream from mouth, and 4 miles (6 km) southwest of Collegeville.

DRAINAGE AREA.—44.8 sq mi (116.0 sq km).

PERIOD OF RECORD.—July 1948 to December 1951, October 1952 to current year.

GAGE.—Water-stage recorder. Datum of gage is 641.79 ft (195.618 m) above mean sea level. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years, 36.8 cfs (1.042 cu m/s), 11.16 in/yr (283 mm/yr).

EXTREMES.—Current year: Maximum discharge, 995 cfs (28.2 cu m/s) Dec. 31, gage height, 9.75 ft (2.972 m); minimum daily, 1.4 cfs (0.040 cu m/s) Sept. 23-25.

Period of record: Maximum discharge, 3,720 cfs (105 cu m/s) June 10, 1958, gage height, 11.66 ft (3.554 m); no flow at times most years.

REMARKS.—Records good, except those for period of no gage-height record, which are fair.

REVISIONS (WATER YEARS).—WSP 1175: 1949(M). WSP 1558: 1955-57. WSP 1728: 1951(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	52	56	398	70	30	785	46	95	18	181	2.7
2	114	214	49	242	148	38	398	47	68	15	56	2.5
3	81	207	46	178	148	54	293	43	57	9.7	32	2.2
4	66	115	42	298	108	72	230	39	78	11	20	2.1
5	62	83	42	188	91	198	167	36	245	10	13	2.1
6	53	68	174	106	78	170	126	34	348	8.4	9.5	2.1
7	47	65	114	73	68	138	98	33	193	7.6	7.4	2.1
8	43	67	76	54	64	108	83	33	103	7.4	5.5	2.0
9	35	57	57	36	55	99	79	31	72	7.3	4.9	2.1
10	30	54	47	28	47	130	81	28	54	6.7	4.2	2.1
11	103	51	40	21	34	260	68	26	45	6.0	4.2	2.0
12	174	46	74	18	30	210	82	25	44	5.3	5.3	1.9
13	96	68	270	16	27	150	92	24	49	5.0	3.8	1.9
14	71	490	145	16	27	200	83	21	35	4.9	4.3	2.1
15	52	370	87	16	36	157	74	20	33	4.4	6.9	2.3
16	49	214	64	17	34	98	70	21	41	4.2	28	2.1
17	43	138	39	21	29	205	85	19	82	3.9	15	2.2
18	34	98	36	44	26	213	79	18	80	3.7	9.5	2.3
19	32	81	38	103	24	137	79	27	59	3.4	7.1	2.2
20	29	77	49	68	31	101	83	21	50	5.8	6.0	1.8
21	32	93	63	49	39	77	151	18	39	9.7	4.6	1.6
22	87	93	67	64	40	62	610	18	34	9.7	3.7	1.5
23	322	78	52	112	32	52	506	18	30	8.0	3.4	1.4
24	222	67	49	70	28	48	254	17	30	7.6	3.5	1.4
25	133	63	61	56	29	84	124	20	26	7.3	3.2	1.4
26	96	74	58	65	31	192	100	18	26	8.6	2.9	1.9
27	73	74	50	78	30	108	76	19	24	9.7	2.9	1.8
28	64	68	48	105	28	80	60	47	27	5.5	2.3	1.5
29	62	60	71	108	-----	80	51	146	21	4.1	2.2	1.5
30	54	58	434	80	-----	84	48	138	19	4.6	2.3	1.6
31	50	-----	845	66	-----	124	-----	158	-----	130	2.8	-----
TOTAL	2,594	3,343	3,343	2,794	1,432	3,759	5,115	1,209	2,107	352.5	558.2	58.4
MEAN	83.7	111	108	90.1	51.1	121	171	39.0	70.2	11.4	18.0	1.95
MAX	322	490	845	398	148	260	785	158	348	130	181	2.7
MIN	29	46	36	16	24	30	48	17	19	3.4	2.2	1.4
CFSM	1.87	2.48	2.41	2.01	1.14	2.70	3.82	.87	1.57	.25	.40	.04
IN.	2.15	2.78	2.78	2.32	1.19	3.12	4.25	1.00	1.75	.29	.46	.05

CAL YR 1972, TOTAL 22,551.6 MEAN 61.6 MAX 845 MIN 2.7 CFSM 1.38 IN 18.73
WTR YR 1973, TOTAL 26,665.1 MEAN 73.1 MAX 845 MIN 1.4 CFSM 1.63 IN 22.14

PEAK DISCHARGE (BASE, 600 CFS)

NOTE.—No gage-height record
Feb. 9 to Mar. 15.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1315	8.93	602	04-01	1045	9.58	900
12-31	0815	9.75	995	04-22	2145	9.53	875

ILLINOIS RIVER BASIN

05524500 Iroquois River near Foresman, Ind.

LOCATION.—Lat 40°52'14", long 87°18'24", in NE 1/4 SE 1/4 sec.15, T.28 N., R.8 W., Newton County, on right bank at downstream side of bridge on State Highway 55, 0.2 mile (0.3 km) north of intersection of Highways 16 and 55, 0.5 mile (0.8 km) downstream from Mosquito Creek, 0.6 mile (1.0 km) west of Foresman, and 3 miles (4 km) east of Brook.

DRAINAGE AREA.—449 sq mi (1,163 sq km).

PERIOD OF RECORD.—WATER DISCHARGE: December 1948 to current year.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.—Water-stage recorder. Datum of gage is 624.00 ft (190.195 m) above mean sea level. Prior to Sept. 7, 1955, nonrecording gage 2.5 miles (4.0 km) upstream at datum 3.54 ft (1.079 m) higher.

AVERAGE DISCHARGE.—24 years, 360 cfs (10.20 cu m/s), 10.89 in/yr (277 mm/yr).

EXTREMES.—Current year: Maximum discharge, 2,840 cfs (80.4 cu m/s) Jan. 2, gage height, 18.23 ft (5.556 m); minimum daily, 44 cfs (1.25 cu m/s) Sept. 25.

Period of record: Maximum discharge, 5,930 cfs (168 cu m/s) June 14, 1958, gage height, 24.42 ft (7.443 m); minimum daily, 6.3 cfs (0.18 cu m/s) Sept. 10, 1964.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1338: 1953. WSP 1438: 1955. WSP 1508: 1956. WSP 2115: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,850	619	714	2,750	762	288	1,720	980	870	226	696	102
2	1,680	716	667	2,830	824	312	2,260	836	804	198	813	91
3	1,420	978	622	2,690	1,030	378	2,400	738	696	179	733	80
4	1,160	1,040	572	2,250	1,140	460	2,350	656	598	208	540	70
5	938	995	530	1,800	1,140	563	2,200	570	767	222	337	63
6	738	884	700	1,450	1,020	777	1,990	497	1,090	192	224	60
7	579	799	928	1,150	922	870	1,730	449	1,260	162	175	57
8	455	743	950	900	834	886	1,480	423	1,210	138	143	56
9	362	704	868	740	726	838	1,230	399	1,040	127	120	55
10	290	669	754	590	619	828	1,040	370	830	115	103	52
11	369	632	612	460	520	982	910	338	801	109	115	51
12	742	595	571	370	434	1,190	852	316	498	100	316	53
13	862	582	912	350	385	1,230	888	298	517	92	422	49
14	830	990	1,180	350	355	1,230	910	284	545	90	383	50
15	708	1,610	1,120	365	360	1,280	886	275	508	82	386	48
16	595	1,790	1,110	460	347	1,190	827	264	445	76	313	46
17	494	1,820	962	600	332	1,160	815	256	589	76	221	47
18	396	1,740	823	800	347	1,290	822	246	782	68	164	52
19	330	1,560	708	820	326	1,340	828	255	786	64	133	53
20	295	1,390	631	750	324	1,280	866	274	732	68	128	49
21	283	1,260	650	730	369	1,150	1,050	262	650	116	116	46
22	378	1,190	692	800	386	1,020	1,860	244	541	128	99	45
23	838	1,120	692	920	376	844	2,630	249	428	225	89	46
24	1,200	1,020	662	900	336	694	2,790	255	352	229	95	46
25	1,330	904	661	800	307	643	2,670	246	303	224	116	44
26	1,310	856	676	780	306	842	2,400	258	267	176	116	48
27	1,190	856	666	870	301	965	2,100	252	249	143	100	50
28	1,050	848	649	950	289	940	1,780	322	270	118	98	46
29	906	808	662	940	-----	900	1,460	558	300	97	97	52
30	801	755	1,180	862	-----	965	1,260	721	263	100	96	66
31	682	-----	2,310	816	-----	1,060	-----	842	-----	361	103	-----
TOTAL	25,061	30,473	25,434	31,843	15,417	28,395	47,004	12,033	18,991	4,509	7,590	1,673
MEAN	808	1,016	820	1,027	551	916	1,567	7	633	145	245	55.8
MAX	1,850	1,820	2,310	2,830	1,140	1,340	2,790	0	1,260	361	813	102
MIN	283	582	530	350	289	288	815	.4	249	64	89	44
CFSM	1.80	2.26	1.83	2.29	1.23	2.04	3.49	.93	1.41	.32	.55	.12
IN.	2.08	2.52	2.11	2.64	1.28	2.35	3.89	1.07	1.57	.37	.63	.14
CAL YR 1972	TOTAL	206,786	MEAN	565	MAX	2,310	MIN	60	CFSM	1.26	IN	17.13
WTR YR 1973	TOTAL	249,323	MEAN	683	MAX	2,830	MIN	44	CFSM	1.52	IN	20.66

05524500 Iroquois River near Foresman, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DFG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL SIEVE DIAM. % FINER THAN .125 MM
NOV. 09...	1530	9.5	701	36	68	--	--	--	--	--	--	--
DEC. 21...	1600	6.0	637	9	15	--	--	--	--	--	--	--
JAN. 30...	1330	2.0	831	37	83	--	--	--	--	--	--	--
MAR. 13...	1310	8.0	1240	29	97	--	--	--	--	--	--	--
APR. 24...	1150	14.5	2740	74	547	91	94	97	98	99	99	100
JUNE 05...	1645	19.0	821	99	219	--	--	--	--	--	--	--

05525000 Iroquois River at Iroquois, Ill.

LOCATION.—Lat 40°49'25", long 87°34'55", in SE 1/4 sec.15, T.27 N., R.11 W., Iroquois County, on left bank at upstream side of bridge on U.S. Highway 52 in Iroquois, 500 ft (152 m) upstream from Penn Central bridge and 4.5 miles (7.2 km) downstream from Indiana-Illinois State line.

DRAINAGE AREA.—686 sq mi (1,777 sq km).

PERIOD OF RECORD.—October 1944 to current year.

GAGE.—Water-stage recorder. Datum of gage is 614.34 ft (187.25 m) above mean sea level. Prior to Aug. 5, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—29 years, 525 cfs (14.9 cu m/s), 10.39 in/yr (264 mm/yr).

EXTREMES.—Current year: Maximum discharge, 3,580 cfs (101 cu m/s) Apr. 24, gage height, 18.96 ft (5.779 m); minimum, 46 cfs (1.30 cu m/s) Sept. 16, 17, 23, 24, 26.

Period of record: Maximum discharge, 10,400 cfs (295 cu m/s) June 13, 1958, gage height, 26.31 ft (8.019 m); minimum, 5.2 cfs (0.15 cu m/s) Sept. 13, 1964.

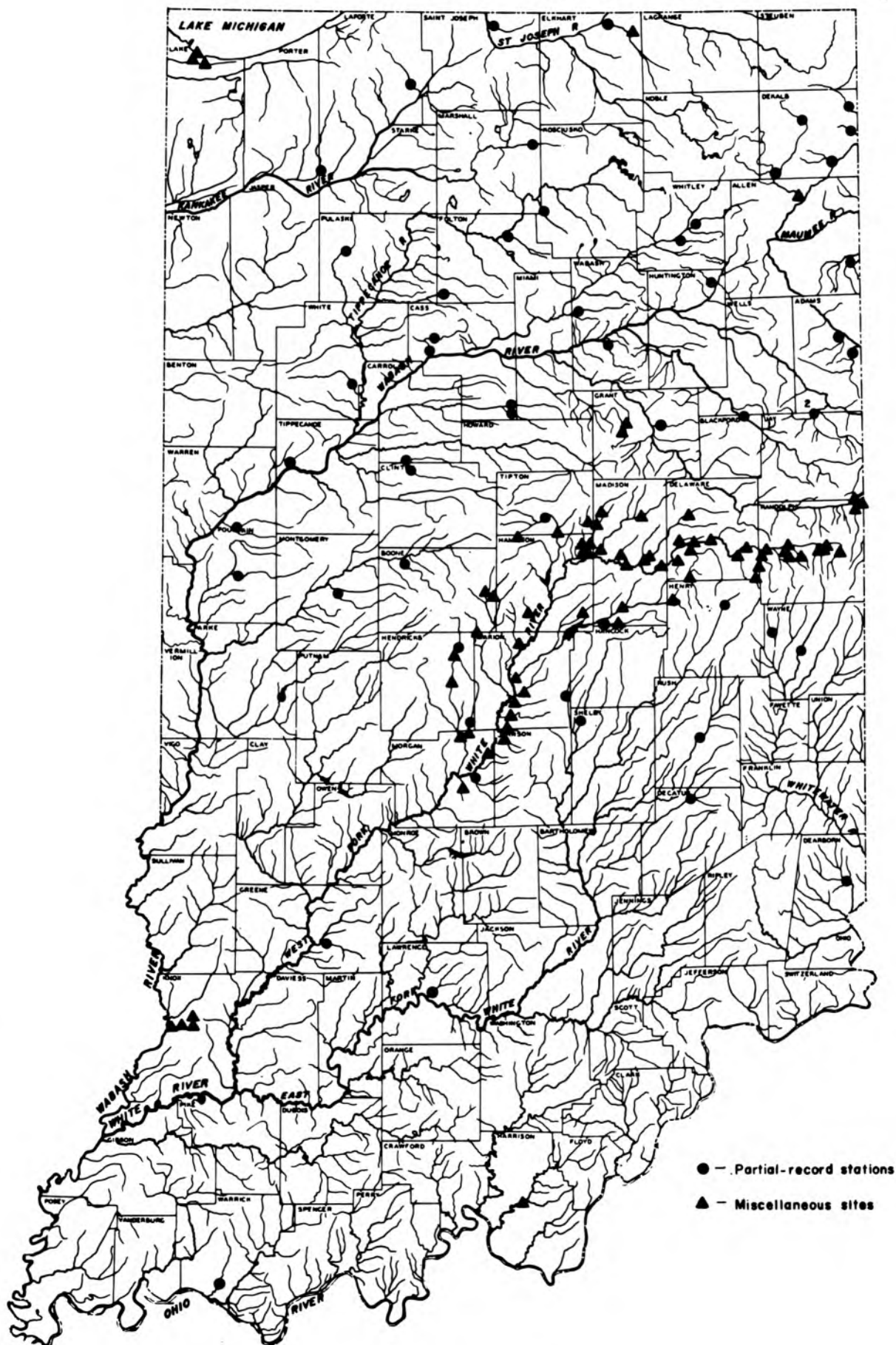
REMARKS.—Records good except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,420	1,060	1,070*	3,170	1,090	431	2,020	1,520	1,100	386	507	115
2	2,280	1,230	1,010	3,350	1,130	438	2,450	1,250	1,070	338	785	105
3	2,090	1,530	936	3,360	1,320	485	2,710	1,050	1,000	307	885	95
4	1,860	1,570	862	3,300	1,440	570	2,860	916	908	293	809	85
5	1,650	1,540	814	3,000	1,490	731	2,790	808	1,260	309	595	76
6	1,390	1,450	1,200	2,500	1,470	979	2,610	709	1,770	306	398	70
7	1,120	1,340	1,370	2,000	1,400	1,170	2,390	631	1,940	274	279	65
8	906	1,260	1,370	1,500	1,290	1,300	2,120	588	1,870	241	220	61
9	717	1,180	1,290	1,100	1,150	1,280	1,830	554	1,710	211	182	57
10	581	1,120	1,160	900	1,020	1,290	1,590	524	1,480	192	154	53
11	698	1,060	999	700	873	1,580	1,360	494	1,180	174	136	49
12	1,250	994	957	600	731	1,820	1,230	463	947	162	165	48
13	1,410	1,010	1,460	540	623	1,830	1,180	434	851	150	361	49
14	1,400	1,660	1,580	500	569	1,880	1,170	410	789	140	468	49
15	1,270	2,030	1,580	500	543	1,950	1,150	390	762	127	457	49
16	1,110	2,190	1,500	510	518	1,860	1,130	377	716	116	435	48
17	950	2,260	1,300	526	512	1,830	1,080	363	1,250	107	348	47
18	783	2,220	1,200	624	499	1,900	1,060	349	1,510	103	259	48
19	641	2,090	1,100	912	502	1,920	1,060	353	1,390	96	199	50
20	555	1,930	1,000	975	485	1,870	1,080	357	1,290	109	162	52
21	517	1,790	981	968	494	1,770	1,360	357	1,140	143	148	50
22	667	1,690	982	1,000	519	1,620	2,450	343	970	178	135	48
23	1,410	1,610	950	1,170	534	1,420	3,300	334	792	202	117	47
24	1,780	1,500	910	1,160	510	1,210	3,540	333	634	354	106	47
25	1,860	1,390	907	1,120	475	1,100	3,530	338	536	377	120	49
26	1,860	1,320	903	1,100	453	1,280	3,330	331	473	326	130	47
27	1,800	1,290	889	1,090	446	1,370	2,990	348	444	266	120	48
28	1,680	1,250	882	1,130	439	1,390	2,590	496	536	213	110	51
29	1,520	1,200	944	1,190	-----	1,390	2,210	653	475	173	105	52
30	1,340	1,130	1,770	1,190	-----	1,410	1,840	814	440	147	105	53
31	1,180	-----	2,710	1,140	-----	1,510	-----	1,060	-----	179	115	-----
TOTAL	40,695	44,894	36,586	42,825	22,525	42,584	62,010	17,947	31,233	6,699	9,115	1,763
MEAN	1,313	1,496	1,180	1,381	804	1,374	2,067	579	1,041	216	294	58.8
MAX	2,420	2,260	2,710	3,360	1,490	1,950	3,540	1,520	1,940	386	885	115
MIN	517	994	814	500	439	431	1,060	331	440	96	105	47
CFSM	1.93	2.19	1.73	2.02	1.18	2.01	3.03	.85	1.53	.32	.43	.09
IN.	2.22	2.45	2.00	2.34	1.23	2.32	3.38	.98	1.70	.37	.50	.10

CAL YR 1972 TOTAL 312,066 MEAN 853 MAX 2,710 MIN 84 CFSM 1.25 IN 17.02
WTR YR 1973 TOTAL 358,876 MEAN 983 MAX 3,540 MIN 47 CFSM 1.44 IN 19.58

PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES IN INDIANA



As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations and miscellaneous sites are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in the second table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during Water Year 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
OHIO RIVER BASIN						
Great Miami River						
03274710	Nettle Creek near Hagerstown, Ind.	Lat 39°55'30", long 85°10'39", in W 1/2 sec.15, T.17 N., R.12 E., Wayne County, at bridge on Leavell Road, 1.3 miles northwest of Hagerstown.	17.7	1971-73	05-16-73 09-11-73	17.3 6.50
03274900	Greens Fork at Greens Fork, Ind.	Lat 39°53'35", long 85°02'39", in NE 1/4 SW 1/4 sec.26, T.17 N., R.13 E., Wayne County, at bridge on State Highway 38, at west edge of Greens Fork.	66.7	1969-73	05-16-73 09-11-73	38.9 9.67
Tanners Creek						
03276630	Tanners Creek near Guilford, Ind.	Lat 39°09'15", long 84°53'50", in E 1/2 sec.29, T.6 N., R.1 W., first principal meridian, Ohio, Dearborn County, at bridge on Pribble Road, 2.3 miles southeast of Guilford.	84.1	1969-73	05-16-73 09-12-73	29.7 .71
Cypress Creek						
03304200	Cypress Creek near Newburgh, Ind.	Lat 37°57'16", long 87°19'50", in SW 1/4 SW 1/4 NE 1/4 sec.32, T.6 S., R.8 W., Warrick County, at bridge on County Road 550 South, 0.5 mile west of County Road 400 West, 4.0 miles east of Newburgh.	about 56	1972-73	09-11-73	4.67
Wabash River						
03322860	Loblolly Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW 1/4 NE 1/4 sec.32, T.25 N., R.14 E., Adams County at bridge on U.S. Highway 27, at south edge of Geneva.	67.2	1969-73	07-17-73 09-11-73	3.15 2.72
03322880	Limberlost Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW 1/4 NE 1/4 sec.32, T.25 N., R.14 E., Adams County, 50 ft upstream of mouth, above bridge on U.S. Highway 27, at south edge of Geneva.	41.7	1969-73	07-17-73 09-11-73	.94 .80
03323700	Aboite Creek near Aboite, Ind.	Lat 40°59'23", long 85°21'00", on line between secs.1 and 12, T.29 N., R.10 E., Huntington County, at bridge on County Road 1100 North, 800 ft above mouth, 2.25 miles northeast of Roanoke.	52.7	1969-73	05-17-73 07-18-73 09-12-73	11.6 5.88 2.60
03324250	Salamonie River at Montpelier, Ind.	Lat 40°33'33", long 85°16'43", in NE 1/4 NE 1/4 SE 1/4 sec.4, T.24 N., R.11 E., Blackford County, at bridge on State Highway 303, at north edge of Montpelier.	253	1969-73	05-14-73 07-17-73 09-11-73	63.6 19.8 14.7
03324700	Treaty Creek at Wabash, Ind.	Lat 40°47'31", long 85°48'36", in SE 1/4 NE 1/4 NE 1/4 sec.14, T.27 N., R.6 E., Wabash County, at bridge on Cassatt Road, 0.5 mile southeast of Wabash.	30.1	1969-73	05-17-73 09-13-73	2.44 1.83
03326480	Lugar Creek at Marion, Ind.	Lat 40°32'20", long 85°37'40", in SW 1/4 SE 1/4 SW 1/4 sec.9, T.24 N., R.8 E., Grant County, at bridge on Stone Road, 2.0 miles east of Marion.	about 30	1972-73	05-15-73 07-17-73 09-12-73	7.84 2.69 2.61
03327590	Eel River near Columbia City, Ind.	Lat 41°08'33", long 85°27'25", in NW 1/4 SE 1/4 NE 1/4 sec.13, T.31 N., R.9 E., Whitley County, at bridge on Old U.S. Highway 30, 1.5 miles east of Columbia City.	77.4	1969-73	05-16-73 07-18-73 09-12-73	54.4 31.2 23.8
03327900	Sugar Creek near South Whitley, Ind.	Lat 41°04'31", long 85°36'54", on line between secs.3 and 10, T.30 N., R.8 E., Whitley County, at bridge on State Highway 14, 0.3 mile east of junction with State Highway 5, at southeast edge of South Whitley.	30.7	1969-73	05-16-73 07-18-73 09-11-73	7.06 3.24 1.92

Discharge measurements made at low-flow partial-record stations during Water Year 1973—Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
OHIO RIVER BASIN--Continued						
Wabash River--Continued						
03328420	Paw Paw Creek near Roann, Ind.	Lat 40°53'40", long 85°53'19", in SW 1/4 NW 1/4 NW 1/4 sec.8, T.28 N., R.5 E., at bridge on State Road 15, 3.5 miles northwest of intersection of State Road 115 and State Road 15.	about 31	1973	05-17-73 07-18-73 09-11-73	6.07 1.99 .76
03329100	Crooked Creek near Royal Center, Ind.	Lat 40°48'23", long 86°29'31", in NW 1/4 sec.11, T.27 N., R.1 W., Cass County, at culverts on 625 West Road, 4 miles south of Royal Center.	35.9	1968-73	05-16-73 07-19-73 09-13-73	29.8 11.6 8.24
03329150	Crooked Creek near Logansport, Ind.	Lat 40°45'51", long 86°29'54", in NW 1/4 sec.26, T.27 N., R.1 W., Cass County, at bridge on U.S. Highway 24, 6.5 miles west of Logansport.	54.2	1968-73	05-16-73 07-19-73 09-13-73	58.9 29.7 23.3
03329510	Deer Creek near Lincoln, Ind.	Lat 40°36'11", long 86°12'10", in NW 1/4 sec.21, T.25 N., R.3 E., Cass County, at bridge on U.S. Highway 35, one mile south of Lincoln.	56.5	1968-73	05-14-73 07-17-73	9.47 5.69
03329530	South Fork Deer Creek at Galveston, Ind.	Lat 49°34'54", long 86°11'23", in SE 1/4 sec.28, T.25 N., R.3 E., Cass County, at bridge on U.S. Highway 35, at Galveston.	31.6	1968-73	05-14-73 07-17-73	13.3 3.28
03331350	Yellow Creek near Mentone, Ind.	Lat 41°10'18", long 86°07'16", in NW 1/4 NE 1/4 sec.6, T.31 N., R.4 E., Fulton County, at bridge on State Highway 25, 4.5 miles west of Mentone.	43.7	1969-73	05-16-73 07-20-73 09-12-73	29.5 10.9 4.02
03331375	Chippewanuck Creek near Rochester, Ind.	Lat 41°06'43", long 86°11'09", in NW 1/4 NW 1/4 sec.27, T.31 N., R.3 E., Fulton County, at bridge on State Highway 25, 3.5 miles north of Rochester.	43.7	1969-73	05-16-73 07-20-73 09-12-73	30.9 11.3 8.31
03332250	Indian Creek near Thornhope, Ind.	Lat 40°55'12", long 86°31'42", in NE 1/4 SE 1/4 NE 1/4 sec.33, T.29 N., R.1 W., Pulaski County, at bridge on U.S. Highway 35, 0.3 mile south of Thornhope.	56.6	1968, 1970-73	05-16-73 07-19-73 09-13-73	36.5 17.0 13.9
03332350	Big Monon Creek near Medaryville, Ind.	Lat 41°03'21", long 86°50'02", in NW 1/4 NW 1/4 sec.13, T.30 N., R.4 W., Pulaski County, at bridge on State Highway 14, 3 miles east of junction of U.S. Highway 421 and State Highway 14, 3.5 miles southeast of Medaryville.	69.6	1968-69 1971-73	05-15-73 07-19-73 09-13-73	65.6 25.3 24.4
03332800	Big Creek near Monticello, Ind.	Lat 40°40'16", long 86°47'14", in SW 1/4 NW 1/4 SW 1/4 sec.29, T.26 N., R.3 W., White County, at bridge on county road 4.8 miles east of State Road 43 in Chalmers.	55.3	1968-69 1971-73	05-15-73 07-19-73 09-13-73	24.7 9.25 6.69
03334700	Middle Fork Wildcat Creek near Rossville, Ind.	Lat 40°25'47", long 86°36'15", in NE 1/4 NE 1/4 sec.23, T.23 N., R.2 W., Clinton County, at bridge on U.S. Highway 421, 1 mile northwest of Rossville.	54.0	1969-73	05-17-73 07-17-73 09-12-73	21.9 8.16 6.01
03334750	Campbells Run near Rossville, Ind.	Lat 40°24'46", long 86°35'41", in SE 1/4 NW 1/4 sec.25, T.23 N., R.2 W., Clinton County, at bridge on U.S. Highway 421, 0.3 mile south of Rossville.	18.3	1969-73	05-17-73 07-17-73 09-12-73	4.15 1.15 .66
03335680	Indian Creek near Greenhill, Ind.	Lat 40°25'03", long 87°02'31", in SE 1/4 SW 1/4 SE 1/4 sec.24, T.23 N., R.6 W., Tippecanoe County, at bridge on South River Road, 6.5 miles west of West Lafayette.	about 30	1972-73	05-15-73 09-12-73	10.6 .58
03335800	Big Shawnee Creek near Attica, Ind.	Lat 40°14'30", long 87°14'12", in NW 1/4 sec.29, T.21 N., R.7 W., Fountain County, at county road bridge, 0.5 mile northeast of Rob Roy, and 3.7 miles southeast of Attica.	42.0	1968-73	05-15-73 09-12-73	40.5 13.8
03339111	East Fork Coal Creek near Veedersburg, Ind.	Lat 40°05'48", long 87°14'34", in NW 1/4 NW 1/4 sec.17, T.19 N., R.7 W., Fountain County, at bridge on New U.S. Highway 41, 1.5 miles southeast of Veedersburg.	60.1	1969-73	05-15-73 05-17-73 09-13-73	33.2 12.6 10.5
03339300	Prairie Creek at Thorntown, Ind.	Lat 40°07'46", long 86°36'01", in SE 1/4 SE 1/4 sec.35, T.20 N., R.2 W., Boone County, at bridge on State Highway 47, at east edge of Thorntown.	46.9	1969-73	05-17-73 07-18-73 09-11-73	17.4 6.25 5.02
03339460	Walnut Fork Sugar Creek near Crawfordsville, Ind.	Lat 40°02'49", long 86°51'33", in SE 1/4 NW 1/4 sec.34, T.19 N., R.4 W., Montgomery County, at bridge on State Highway 32, 2.5 miles east of Crawfordsville.	44.8	1969-73	05-15-73 07-17-73 09-13-73	14.6 3.07 1.35
03348400	Duck Creek near Strawtown, Ind.	Lat 40°08'17", long 85°56'22", on line between secs.34 and 35, T.20 N., R.5 E., Hamilton County, at bridge on State Highway 213, 0.6 mile north of State Highway 37, and 1.1 miles north of Strawtown.	98.9	1946,1965, 1968-73	05-15-73 07-18-73 09-11-73	3.67 11.1 10.4
03349200	Cicero Creek at Tipton, Ind.	Lat 40°16'16", long 86°03'02", on line between secs.14 and 15, T.21 N., R.4 E., Tipton County, at county road bridge, 0.5 mile southwest of Tipton.	80.2	1968-73	05-15-73 07-18-73 09-11-73	33.0 4.21 2.89
03351490	Lick Creek near Fortville, Ind.	Lat 39°57'22", long 85°50'36", on line between secs.3 and 4, T.17 N., R.6 E., Madison County, at bridge on State Highway 13, 1.5 miles north of U.S. Highway 36 in Fortville.	about 36	1972-73	05-15-73 07-18-73 09-11-73	24.6 10.7 9.42
03353665	Stotts Creek near Martinsville, Ind.	Lat 39°30'02", long 86°19'57", in NE 1/4 sec.8, T.12 N., R.2 E., Morgan County, at bridge on State Highway 37, 250 ft upstream of mouth, 7.2 miles northeast of Martinsville.	60.1	1954, 1968-73	05-17-73 07-17-73 09-13-73	21.2 6.20 2.31

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during Water Year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
03353670	White Lick Creek at Brownsburg, Ind.	Lat 39°51'56", long 86°23'42", in NE 1/4 NW 1/4 sec.2, T.16 N., R.1 E., Hendricks County, at bridge on County Road 700 N., and 1.6 miles north of Brownsburg.	28.7	1960-65, 1967, 1973	10-13-73 10-18-73	1.83 2.07
03353900	East Fork White Lick Creek at Mooresville, Ind.	Lat 39°38'47", long 86°20'47", in SE 1/4 sec.18, T.14 N., R.2 E., Hendricks County, at bridge on Mooresville Road, 0.8 mile west of Friendswood, and 3 miles northeast of Mooresville.	42.8	1965, 1968-73	05-17-73 07-17-73 09-11-73	12.0 4.60 4.28
03360225	Plummer Creek near Bloomfield, Ind.	Lat 38°59'33", long 86°55'44", in NE 1/4 sec.2, T.6 N., R.5 W., Greene County, at bridge on U.S. Highway 231, 2.3 miles south of Bloomfield.	66.7	1954, 1968-73	09-14-73	1.80
03360920	Big Blue River near New Castle, Ind.	Lat 40°00'15", long 85°20'48", at corner of secs.13, 14, 23, and 24, T.18 N., R.10 E., Henry County, at bridge on U.S. Highway 36, 5.2 miles east of Sulphur Springs, and 5.2 miles north of New Castle.	15.8	1965, 1969-73	05-15-73 09-11-73	13.2 7.02
03361700	Sugar Creek near Pleasant View, Ind.	Lat 39°38'49", long 86°55'09", in SE 1/4 NE 1/4 sec.24, T.14 N., R.5 E., Shelby County, at bridge on Interstate 74, and 1.7 miles southeast of Pleasant View.	130	1954, 1960-71, 1973	10-17-73	17.6
03361800	Buck Creek near New Bethel, Ind.	Lat 39°43'34", long 85°58'21", on line between secs.21 and 28, T.15 N., R.5 E., Marion County, at bridge on East Troy Avenue, 2.4 miles northeast of New Bethel.	51	1960-65, 1967-71, 1973	10-17-73	4.88
03363400	Flatrock River at Rushville, Ind.	Lat 39°36'15", long 85°26'39", in NW 1/4 SW 1/4 sec.5, T.13 N., R.10 E., Rush County, at bridge on U.S. Highway 52, 0.3 mile south of courthouse in Rushville.	168	1969-73	05-15-73 07-18-73 09-12-73	109 46.8 19.2
03364400	Clifty Creek at Sandusky, Ind.	Lat 39°25'27", long 85°28'48", in NE 1/4 NE 1/4 sec.11, T.11 N., R.9 E., Decatur County, at bridge on State Highway 3, in Sandusky.	46.4	1969-73	05-15-73 07-18-73 09-12-73	15.2 6.21 1.05
03371530	Leatherwood Creek at Bedford, Ind.	Lat 38°50'23", long 86°28'38", in SE 1/4 SW 1/4 NW 1/4 sec.25, T.5 N., R.1 W., Lawrence County, at bridge on county road, 1.6 miles southeast of courthouse in Bedford.	about 39	1972-73	05-14-73 09-14-73	18.3 .95

STREAMS TRIBUTARY TO LAKE MICHIGAN

St. Joseph River

04099805	Little Elkhart River near Middlebury, Ind.	Lat 41°39'15", long 85°40'14", on line between secs.13 and 24, T.37 N., R.7 E., Elkhart County, at bridge on U.S. Highway 20, 2.2 miles southeast of Middlebury.	60.6	1972-73	05-17-73 07-19-73 09-12-73	27.0 27.5 18.8
04101300	Judy Creek at Roseland, Ind.	Lat 41°43'18", long 86°15'02", in NE 1/4 NW 1/4 sec.25, T.38 N., R.2 E., St. Joseph County, at bridge on U.S. Highway 31, 150 ft south of Interstates 80 and 90 at the north edge of Roseland.	about 37	1973	05-17-73 07-19-73 09-13-73	17.2 10.1 5.32

STREAMS TRIBUTARY TO LAKE ERIE

Maumee River

04177800	Fish Creek near Artie, Ind.	Lat 41°29'15", long 84°50'13", in SE 1/4 sec.18, T.35 N., R.15 E., DeKalb County, at bridge on County Road 12, 1.7 miles northeast of Artie.	95.6	1968-73	05-16-73 07-18-73 09-12-73	53.7 37.1 8.26
04177900	Big Run at Butler, Ind.	Lat 41°26'09", long 84°52'08", in NE 1/4 sec.1, T.34 N., R.14 E., DeKalb County, at bridge on State Highway 1, 0.6 mile north of Butler.	17.0	1968-73	05-16-73 07-18-73 09-12-73	5.77 2.74 2.00
04178400	Bear Creek at Saint Joe, Ind.	Lat 41°18'58", long 84°53'31", in NE 1/4 SW 1/4 SE 1/4 sec.15, T.33 N., R.14 E., DeKalb County, at bridge on State Highway 1, 1/3 mile east of Saint Joe.	27.2	1972-73	05-15-73 07-18-73 09-12-73	11.0 4.32 3.15
04179310	Cedar Creek at Waterloo, Ind.	Lat 41°26'14", long 85°01'03", in NW 1/4 sec.3, T.34 N., R.13 E., DeKalb County, at bridge on U.S. Highway 27, 0.3 mile northeast of Waterloo.	48.8	1968-73	05-16-73 07-19-73 09-13-73	27.1 9.08 3.86
04179800	Little Cedar Creek near Garrett, Ind.	Lat 41°16'08", long 85°08'07", on line between secs.33 and 34, T.33 N., R.12 E., DeKalb County, at bridge on U.S. Highway 27, 6.0 miles south of Garrett.	72.3	1972-73	05-16-73 07-19-73 09-13-73	31.5 12.8 8.72
04181100	Blue Creek near Pleasant Mills, Ind.	Lat 40°44'49", long 84°49'20", in NE 1/4 NE 1/4 sec.4 T.26 N., R.15 E., Adams County, at bridge on State Highway 124, 1.5 miles west of Willshire, Ohio, and 2.2 miles southeast of Pleasant Mills.	78.5	1968-73	05-15-73 07-17-73 09-11-73	11.3 1.21 1.40
04181300	Yellow Creek near Decatur, Ind.	Lat 40°48'10", long 84°53'00", in NW 1/4 NE 1/4 NE 1/4 sec.13, T.27 N., R.14 E., Adams County, at bridge on U.S. Highway 33, 2.2 miles southeast of Decatur.	27.0	1972-73	05-15-73 07-17-73 09-12-73	2.00 .33 .10
04191340	Flatrock Creek near Townley, Ind.	Lat 41°00'51", long 84°51'06", in SE 1/4 sec.32, T.30 N., R.15 E., Allen County, at bridge on U.S. Highway 30, 1.2 miles southeast of Townley.	47.1	1968-73	05-15-73 09-12-73	3.29 .20

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements					
					Date	Discharge (cfs)				
UPPER MISSISSIPPI RIVER BASIN										
Illinois River										
05515218	Potato Creek at North Liberty, Ind.	Lat 41°32'28", long 86°25'38", in NE 1/4 NE 1/4 SE 1/4 sec.29, T.36 N., R.1 E., St. Joseph County, at bridge on State Highway 23, 0.5 mile north of State Highway 4 in North Liberty.	about 27	1973	07-19-73	13.6				
					09-12-73	10.2				
05516950	Eagle Creek near Grovertown, Ind.	Lat 41°18'44", long 86°31'27", in NE 1/4 SE 1/4 NE 1/4 sec.16, T.33 N., R.1 W., Starke County, at bridge on State Road 23, 0.3 mile south of County Road 100 North, and 5.2 miles south of U.S. Highway 30 in Grovertown.	about 32	1973	05-16-73	36.5				
					07-19-73	20.6				
					09-13-73	11.5				

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations
are given in the following table

Discharge measurements made at miscellaneous sites during water year 1973
(and some made in 1970 and 1972 water years)

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Date	Discharge (cfs)
OHIO RIVER BASIN						
Indian Creek	Ohio River	Lat 38°12'05", long 86°10'18", in NW 1/4 NE 1/4 sec.3, T.4 S., R.3 E., Harrison County, 300 ft upstream from old dam, 2.5 miles southwest of Corydon.		1969	09-13-72	3.36
Mississinewa River	Wabash River	Lat 40°17'31", long 84°48'14", in SE 1/4 NE 1/4 sec.25, T.19 N., R.1 W., Randolph County, at bridge on State Line Road, and 2.4 miles southeast of Salem.	25.0	1964	07-29-70	1.62
Little Mississinewa River	Mississinewa River	Lat 40°17'16", long 84°49'56", in NW 1/4 SW 1/4 sec.10, T.21 N., R.15 E., Randolph County, at bridge on county road, 900 ft upstream from mouth, and 1.6 miles south of Salem.			07-29-70	2.45
Jordan Creek	...do.....	Lat 40°18'08", long 84°50'37", in SW 1/4 NW 1/4 sec.3, T.21 N., R.15 E., Randolph County, at bridge on county road, and 0.5 mile south of Salem.			07-29-70	.19
Sims Franklin ditch	Pipe Creek	Lat 40°33'09", long 85°45'01", in SE 1/4 SE 1/4 sec.5, T.24 N., R.7 E., Grant County, at bridge on North 00 South Road, 200 ft. upstream from mouth, and 1.7 miles southeast of Sweetser.	9.83		07-29-70	.70
Pipe Creek	Wabash River	Lat 40°33'09", long 85°44'58", in SW 1/4 SW 1/4 sec.4, T.24 N., R.7 E., Grant County, at bridge on North 00 South Road, 400 ft upstream from Sims Franklin ditch, and 4.6 miles west of the Marion Post Office.	19.4		07-29-70	2.93
Smalls Creek	...do.....	Lat 38°46'19", long 87°25'47", Donation 189, T.4 N., R.9 W., Knox County, at bridge on Highway 550, 1.4 miles northwest of Bruceville.	5.77		04-20-72	97.3
South Fork Smalls Creek	Smalls Creek	Lat 38°44'41", long 87°24'47", Donation 96, T.4 N., R.9 W., Knox County, at bridge on county road, 1 mile south of Bruceville.	2.97		04-20-72 05-10-72 08-22-73	58.0 2.09 .06
Smalls Creek	Wabash River	Lat 38°45'15", long 87°28'10", Donation 25, T.4 N., R.10 W., Knox County, at bridge on county road, 3.2 miles west of Bruceville.	15.3		04-20-72 05-10-72	360 8.95
Smalls Creek	...do.....	Lat 38°45'17", long 87°28'30", Donation 4, T.4 N., R.10 W., Knox County, at New State Road 41 bridge, 3.5 miles west of Bruceville.			05-19-72 06-14-72	2.04 .06
White River	...do.....	Lat 40°10'32", long 84°53'23", in NW 1/4 NE 1/4 sec.19, T.20 N., R.15 E., Randolph County, at bridge on State Highway 32, 8 miles southwest of Harrisville.	21.3		10-25-72	3.76
White River	...do.....	Lat 40°10'56", long 84°58'08", in SE 1/4 SW 1/4 sec.16, T.20 N., R.14 E., Randolph County, at bridge on U.S. Highway 27, 0.65 mile downstream from Peach Creek, and 0.9 mile northeast of Winchester.		1966	09-28-72 10-03-72 10-25-72 08-07-73	48.0 23.4 6.03 2.38
Salt Creek	White River	Lat 40°09'58", long 84°58'48", in SE 1/4 SE 1/4 sec.20, T.20 N., R.14 E., Randolph County, at Orange Street bridge in Winchester.			08-07-73	.43
Sugar Creek	...do.....	Lat 40°09'27", long 84°59'39", in SW 1/4 NW 1/4 sec.29, T.20 N., R.14 E., Randolph County, at bridge on County Road 50 South, 1.3 miles southwest of Winchester.			08-07-73	.72
Sparrow Creek	...do.....	Lat 40°08'06", long 85°04'29", in SE 1/4 SE 1/4 sec.33, T.20 N., R.13 E., Randolph County, at bridge on Road 200 South, 4.7 miles southeast of Farland.			08-07-73	.24
White River	Wabash River	Lat 40°10'14", long 85°09'40", in NW 1/4 SW 1/4 sec.24, T.20 N., R.12 E., Randolph County, at bridge on State Highway 1, 1.2 miles south of Farland.	85.5	1964, 1966	09-28-72 10-03-72 10-25-72 08-07-73 08-07-73	121 60.0 25.9 13.4 6.41
Cabin Creek	White River	Lat 40°08'20", long 85°07'39", in NW 1/4 SW 1/4 sec.31, T.20 N., R.12 E., Randolph County, at bridge on State Highway 1, 3.4 miles south of Farland.			08-07-73	
Cabin Creek	...do.....	Lat 40°09'53", long 85°09'37", in SE 1/4 SW 1/4 sec.23, T.20 N., R.12 E., Randolph County, at bridge on Windsor Pike, 2.3 miles southwest of Farland.			10-25-72	16.2

Discharge measurements made at miscellaneous sites during water year 1973
(and some made in 1970 and 1972 water year)—Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
OHIO RIVER BASIN—Continued						
White River	Wabash River	Lat 40°09'43", long 85°12'48", in NE 1/4 NW 1/4 sec.29, T.20 N., R.12 E., Randolph County, at bridge on County Road 1250 West, 0.55 mile north of Windsor, and 2.0 miles south of Parker.			09-28-72 10-03-72	217 92.2
Stoney Creek	White River	Lat 40°04'36", long 85°14'47", in NE 1/4 NW 1/4 sec.26, T.19 N., R.11 E., on Delaware-Henry County line, at bridge on County Line Road, 1.2 miles north of Blountsville, and 0.65 mile upstream from Little Stoney Creek.			10-25-72	6.35
Stoney Creek	...do.....	Lat 40°06'21", long 85°13'31", in SE 1/4 SW 1/4 sec.12, T.19 N., R.11 E., Delaware County, at bridge on Road 600 South, 1.5 miles east of Gates Corner, and 3.3 miles north of Blountsville.		1963, 1964	08-07-73	4.48
Stoney Creek	...do.....	Lat 40°09'27", long 85°12'48", in SW 1/4 NE 1/4 sec.29, T.20 N., R.12 E., Randolph County, at bridge on county road, 0.2 mile north of Windsor.			10-25-72	15.8
White River	Wabash River	Lat 49°09'52", long 85°15'15", in NE 1/4 NE 1/4 sec.27, T.20 N., R.11 E., Delaware County, at bridge on County Road 700 East, 0.8 mile east of Smithfield.		1964	08-07-73	35.4
White River	...do.....	Lat 40°10'07", long 85°16'12", in NW 1/4 SW 1/4 sec.22, T.20 N., R.11 E., Delaware County, at bridge on County Road 170 South, at Smithfield.			10-25-72	52.9
Prairie Creek	White River	Lat 40°08'57", long 85°17'46", in NE 1/4 NE 1/4 sec.32, T.20 N., R.11 E., Delaware County, at bridge on County Road 300 South, 2.1 miles southwest of Smithfield.	16.9	1964	08-07-73	3.68
White River	Wabash River	Lat 40°11'09", long 85°27'47", in SE 1/4 NE 1/4 sec.14, T.20 N., R.9 E., Delaware County, at bridge on County Road 400 West, at Muncie.		1964, 1965	10-26-72	81.7
White River	...do.....	Lat 40°10'44", long 85°29'41", in SE 1/4 SW 1/4 sec.15, T.20 N., R.9 E., Delaware County, at county road bridge, 0.4 mile north of Yorktown, and 0.5 mile upstream from Buck Creek.		1965	10-25-72	83.9
Bell Creek	Buck Creek	Lat 40°05'29", long 85°29'31", in SE 1/4 SW 1/4 sec.15, T.19 N., R.9 E., Delaware County, at bridge on County Road 700 South, 0.4 mile east of Cross Roads.	16.0	1963, 1964	10-26-72	2.78
Buck Creek	White River	Lat 40°10'26", long 85°29'32", in SE 1/4 NW 1/4 sec.22, T.20 N., R.9 E., Delaware County, at bridge on State Highway 32 at Yorktown.		1946	10-26-72 08-07-73	32.9 40.2
York Prairie Creek	...do.....	Lat 40°10'02", long 85°32'36", in NW 1/4 SE 1/4 sec.19, T.20 N., R.9 E., Delaware County, at bridge on County Road 175 South, 0.6 mile upstream from mouth, and 2.9 miles north of Daleville.		1964	10-26-72 08-07-73	7.06 5.08
Shoemaker ditch	...do.....	Lat 40°08'33", long 85°32'33", in SW 1/4 NE 1/4 sec.31, T.20 N., R.9 E., Delaware County, at bridge on Highway 32, 1.5 miles northeast of Daleville.			08-07-73	4.17
White River	Wabash River	Lat 40°07'08", long 85°36'52", in NE 1/4 NE 1/4 sec.9, T.19 N., R.8 E., Madison County, at bridge on County Road 300 East, at Chesterfield.			10-26-72	144
Killbuck Creek	White River	Lat 40°16'37", long 85°29'07", in NE 1/4 NE 1/4 sec.15, T.21 N., R.9 E., Delaware County, at bridge on State Highway 28, 0.55 mile upstream from Stoch ditch, and 2.7 miles south of Gaston.			10-24-72	6.73
Killbuck Creek	...do.....	Lat 40°08'18", long 85°39'44", in SE 1/4 NW 1/4 sec.31, T.20 N., R.8 E., Madison County, at bridge on State Highway 109, 900 ft downstream from Little Killbuck Creek, 2.1 miles upstream from mouth, and 2.3 miles northeast of county courthouse at Anderson.	97.8	c1964- 1968	10-25-72	37.1

c former gaging station

Discharge measurements made at miscellaneous sites during water year 1973
(and some made in 1970 and 1972 water years)—Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
OHIO RIVER BASIN—Continued						
Killbuck Creek	White River	Lat 40°07'03", long 85°40'45", in NW 1/4 NE 1/4 sec.12, T.19 N., R.7 E., Madison County, at bridge on Jackson Street in Anderson.	104		08-07-73	28.7
White River	Wabash River	Lat 40°06'48", long 85°44'00", in SE 1/4 NE 1/4 sec.9, T.19 N., R.7 E., Madison County, 0.7 mile downstream from county road bridge, 0.9 mile downstream from the Anderson sewage disposal plant, and 2.9 miles west of the Anderson Post Office.			10-25-72	198
Indian Creek	White River	Lat 40°08'06", long 85°45'57", in NW 1/4 NW 1/4 sec.5, T.19 N., R.7 E., Madison County, at bridge on County Road 200 North, 6.1 miles south of Frankton.			08-07-73	.33
Pipe Creek	...do.....	Lat 40°16'40", long 85°38'34", in SW 1/4 SE 1/4 sec.8, T.21 N., R.8 E., Madison County, at bridge on State Highway 28, and 2.0 miles northeast of Alexandria.	44.8	1960-71 1972	10-25-72	14.2
Pipe Creek	...do.....	Lat 40°09'20", long 85°51'47", in NW 1/4 SW 1/4 sec.28, T.20 N., R.6 E., Madison County, at bridge on State Highway 13, and 0.85 mile north of Perkinsville.		1946	10-25-72	45.1
Duck Creek	...do.....	Lat 40°17'29", long 85°49'45", in SW 1/4 SE 1/4 sec.3, T.21 N., R.6 E., Madison County, at bridge on County Road 1300 North, at Elwood.			10-25-72	13.2
Duck Creek	...do.....	Lat 40°14'52", long 85°50'44", in NE 1/4 NE 1/4 sec.28, T.21 N., R.6 E., Madison County, at bridge on County Road 1000 North, 0.1 mile downstream from confluence of Big Duck Creek and Little Duck Creek, and 2.0 miles south of the city hall in Elwood.			10-26-72	19.5
Polywog Creek	Duck Creek	Lat 40°14'15", long 85°51'41", in NE 1/4 SE 1/4 sec.29, T.21 N., R.6 E., Tipton County, at bridge on County Road 800 East 0.1 mile upstream from mouth, and 2.9 miles south of the city hall in Elwood.			10-26-72	14.2
Duck Creek	White River	Lat 40°11'57", long 85°52'40", in SW 1/4 NW 1/4 sec.8, T.20 N., R.6 E., Hamilton County, at bridge on 281st Street at Aroma, and 4.2 miles northeast of Walnut Grove.			10-25-72	38.9
Duck Creek	...do.....	Lat 40°08'30", long 85°55'14", in SW 1/4 NW 1/4 sec.36, T.20 N., R.5 E., Hamilton County, at bridge on Brehm Road, 0.4 mile upstream from Bear Creek, and 1.7 miles southeast of Walnut Grove.			10-25-72	43.9
Bear Creek	Duck Creek	Lat 40°08'51", long 85°55'50", in SE 1/4 SW 1/4 sec.26, T.20 N., R.5 E., Hamilton County, at bridge on East 246th Street, 0.55 mile upstream from mouth, and 1.1 miles southeast of Walnut Grove.		1954	10-26-72	4.76
Prairie Creek	Cicero Creek	Lat 40°12'37", long 86°09'42", in NW 1/4 SW 1/4 sec.2, T.20 N., R.3 E., Tipton County, at bridge on Horton Road, and 3.1 miles north of Boxley.			10-26-72	10.3
Cicero Creek	White River	Lat 40°13'05", long 86°00'34", in NW 1/4 NW 1/4 sec.6, T.20 N., R.5 E., Hamilton County, at bridge on county road, and 0.6 mile east of city limits of Atlanta.			10-26-72	99.6
Cool Creek	...do.....	Lat 39°57'14", long 86°04'24", in NE 1/4 NE 1/4 sec.4, T.17 N., R.4 E., Hamilton County, at bridge on River Avenue, 3.2 miles southeast of Carmel.		1958	10-26-72	7.31
Williams Creek	...do.....	Lat 39°53'38", long 86°08'45", in SW 1/4 NW 1/4 sec.25, T.17 N., R.3 E., Marion County, at bridge on College Avenue, at Indianapolis.		1961	10-26-72	7.70
Fall Creek	...do.....	Lat 40°01'29", long 85°33'26", in NE 1/4 SE 1/4 sec.12, T.18 N., R.8 E., Henry County, at bridge on county road, 1.4 miles north of Mechanicsburg.	32.7		10-26-72	7.73
Fall Creek	...do.....	Lat 39°59'58", long 85°45'22", in NW 1/4 NE 1/4 sec.20, T.18 N., R.7 E., Madison County, at bridge on Fall Creek Drive, 0.2 mile west of Pendleton.			10-25-72	32.7

Discharge measurements made at miscellaneous sites during water year 1973
(and some made in 1970 and 1972 water years)—Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
OHIO RIVER BASIN—Continued						
Lick Creek	Fall Creek	Lat 39°57'21", long 85°45'47", in NE 1/4 NW 1/4 sec.5, T.17 N., R.7 E., Madison County, at bridge on State Highway 9, and 2.2 miles east of Ingalls.			10-25-72	7.01
Mud Creek	...do.....	Lat 39°59'14", long 85°54'19", in SW 1/4 SE 1/4 sec.24, T.18 N., R.5 E., Hamilton County, at bridge on 136th Street, 6.1 miles east of Fishers, and 6.4 miles north of McCordsville.			10-25-72	2.83
Fall Creek	White River	Lat 39°46'50", long 86°10'58", in NW 1/4 NE 1/4 sec.3, T.15 N., R.3 E., Marion County, 0.25 mile upstream from mouth, at Indianapolis.		1965	10-25-72	98.0
Pleasant Run	...do.....	Lat 39°44'14", long 86°08'47", in NW 1/4 NE 1/4 sec.24, T.15 N., R.3 E., Marion County, at bridge on Raymond Street in Indianapolis, and 0.2 mile upstream from Bean Creek.			10-26-72	.63
Eagle Creek	...do.....	Lat 40°00'45", long 86°17'08", in NW 1/4 NE 1/4 sec.15, T.18 N., R.2 E., Boone County, at bridge on county road, 4.0 miles southeast of Gadsden.			10-26-72	23.5
Little Eagle Creek	Eagle Creek	Lat 40°00'47", long 86°13'41", in NW 1/4 NE 1/4 sec.18, T.18 N., R.3 E., Hamilton County, at bridge on county road bridge, and 2.0 miles south of Jolietville.			10-26-72	4.13
Fishback Creek	...do.....	Lat 39°55'20", long 86°19'39", in NE 1/4 NW 1/4 sec.17, T.17 N., R.2 E., Hendricks County, 0.6 mile southeast of Royalton.			10-25-72	10.9
Lick Creek	White River	Lat 39°42'08", long 86°09'30", in SE 1/4 NE 1/4 sec.35, T.15 N., R.3 E., Marion County, at bridge on State Highway 135, at Indianapolis.			10-26-72	6.34
Little Buck Creek	...do.....	Lat 39°40'00", long 86°11'48", in SW 1/4 SW 1/4 sec.10, T.14 N., R.3 E., Marion County, at bridge on State Highway 37, at Indianapolis.			10-26-72	4.11
Pleasant Run	...do.....	Lat 39°43'39", long 86°10'05", in NW 1/4 SE 1/4 sec.23, T.15 N., R.3 E., Marion County, at bridge on State Highway 37, at Indianapolis, and 0.4 mile upstream from mouth.			10-26-72	2.28
Honey Creek	...do.....	Lat 39°36'30", long 86°12'59", in NE 1/4 SE 1/4 sec.32, T.14 N., R.3 E., Johnson County, on State Highway 37, 3.8 miles northwest of Stone Crossing.			10-26-72	2.60
White River	Wabash River	Lat 39°33'36", long 86°16'14", in NE 1/4 NE 1/4 sec.23, T.13 N., R.2 E., Morgan County, at bridge on State Highway 144, at Waverly.	2,026	1965, 1966	10-26-72	963
Clear Creek	White River	Lat 39°28'28", long 86°22'08", in SW 1/4 SE 1/4 sec.13, T.12 N., R.1 E., Morgan County, at bridge on State Highway 37, 9.1 miles northwest of Morgantown.			10-25-72	5.91
White Lick Creek	...do.....	Lat 39°50'39", long 86°51'03", in SW 1/4 NW 1/4 sec.11, T.16 N., R.1 E., Hendricks County, at bridge on State Highway 136, at Brownsburg.		1957	10-25-72	22.7
White Lick Creek	...do.....	Lat 39°45'45", long 86°25'03", in NW 1/4 NW 1/4 sec.10, T.15 N., R.1 E., Hendricks County, at bridge on U.S. Highway 36, 0.3 mile upstream from left bank tributary, and 0.95 mile west of Avon.			10-25-72	54.1
White Lick Creek	...do.....	Lat 39°35'55", long 86°22'32", in NW 1/4 NW 1/4 sec.1, T.13 N., R.1 E., Morgan County, at bridge on State Highway 67, and 0.95 mile south of Mooresville.			10-26-72	101
East Fork White Lick Creek	White Lick Creek	Lat 39°37'26", long 86°21'25", in NE 1/4 SE 1/4 sec.30, T.14 N., R.1 E., Morgan County, at bridge on Old State Highway 67, at Mooresville.			10-25-72	12.6

Discharge measurements made at miscellaneous sites during water year 1973
(and some made in 1970 and 1972 water years)—Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
STREAMS TRIBUTARY TO LAKE MICHIGAN						
Grand Calumet River	Lake Michigan	Lat 45°36'29", long 87°23'33", in NE 1/4 NE 1/4 sec.1, T.36 N., R.9 W., Lake County, at bridge on Industrial Highway, in the city of Gary.			10-11-72	832
Indiana Harbor Canal	...do.....	Lat 41°37'16", long 87°28'15", in NW 1/4 NW 1/4 sec.33, T.37 N., R.9 W., Lake County, at bridge on 151st Street in East Chicago.		1955,1956 1962-1964	10-11-72	848
Indiana Harbor Canal	...do.....	Lat 47°39'19", long 87°27'33", in SW 1/4 SE 1/4 sec.16, T.37 N., R.9 W., Lake County, at bridge on Dickey Road, at East Chicago.		1955,1956 1964	10-11-72	1,690
Rowe-Eden ditch	Little Elkhart River	Lat 41°39'14", long 85°40'51", in SE 1/4 SE 1/4 sec.14, T.37 N., R.7 E., Elkhart County, at bridge on U.S. Highway 20, 0.4 mile upstream from mouth, and 2.0 miles southeast of Middlebury.	30.1		05-17-73	27.0

For several years records of the water-surface elevations of many of the lakes in Indiana have been collected by the Geological Survey under cooperative agreement with the Indiana Department of Natural Resources. Basic data for a few selected lakes have been published in WSP 1363, entitled "Hydrology of Indiana Lakes." Records which have not been published are available in the files of the District Office of the Geological Survey in Indianapolis, Indiana. In general, the records are based on once-daily readings of a staff gage by a local observer and consist of daily, monthly, and yearly mean water-surface elevations as well as graphs showing the fluctuation in elevation. Discharge measurements, made at the outflow, are also available in some instances.

The lakes for which records have been collected are listed by downstream order number in the following table. The established level, sometimes referred to as the legal level, is that elevation set by the courts to which the average level of the lake is to be held; it is normally set at about the average level that has prevailed for a number of years prior to the establishment of the level. Surface area and capacity of lake is that surface area and capacity at the established level. Depth contour maps are only those surveyed by the Lake Section of Water Resources Division of the Geological Survey.

Lakes in the Ohio River basin for which records are available

Lake	County	Drainage Area (square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
LAUGHERY CREEK BASIN							
03-2768.00 Versailles Lake near Versailles	Ripley	*168.0	232	-	-	-	1957-73
BAYOU DRAIN BASIN							
03-3223.00 Hovey Lake near Mount Vernon	Posey	*6.36	253	-	-	-	1950-69
WABASH RIVER BASIN							
03-3275.50 Everett Lake at Levert	Allen	1.07	43	835.13	650	+	1946-66
03-3276.00 Blue Lake near Churubusco	Whitley	3.58	239	850.28	5,010	+	1946-69
03-3276.50 Shriner Lake at Tri-Lakes	Whitley	.94	111	907.04	-	-	1943-73
03-3277.00 Cedar Lake at Tri-Lakes	Whitley	.79	131	901.90	-	-	1943-49
03-3277.50 Round Lake at Tri-Lakes	Whitley	3.36	125	901.90	-	-	1943-53
03-3278.00 Wilson Lake near Larwill	Whitley	.46	29	865.39	390	+	1946-52
03-3278.50 Little Wilson Lake near Larwill	Whitley	.52	8	865.39	130	+	1946-52
03-3281.00 Long Lake at Laketon	Wabash	.55	48	751.19	760	+	1946-51
03-3282.50 North Little Lake at Silver Lake	Kosciusko	2.89	12	861.73	170	+	1947-73
03-3283.50 Silver Lake at Silver Lake	Kosciusko	6.31	102	861.73	1,520	+	1947-73
03-3284.00 Lukens Lake near Disko	Wabash	1.76	46	-	1,010	+	1948-49
03-3300.20 Crooked Lake near Wolf Lake	Noble	1.51	206	905.69	9,040	+	1943-53
03-3300.40 Big Lake near Wolf Lake	Noble	8.89	228	898.18	5,630	+	1943-73
03-3300.60 Goose Lake near Lorane	Whitley	1.51	84	910.96	2,180	+	1945-53
03-3300.80 Loon Lake at Ormas	Whitley	11.1	222	895.14	5,730	+	1943-66
03-3301.00 New Lake near Etna	Whitley	.29	50	903.91	880	+	1945-53
03-3301.20 Old Lake near Etna	Whitley	2.81	32	898.07	620	+	1949-66
03-3301.40 Smalley Lake near Washington Center	Noble	27.1	69	-	1,520	+	1943-73
03-3301.60 Gilbert Lake near Washington Center	Noble	.37	28	-	490	+	1954-73
03-3301.80 Horseshoe Lake nr Washington Center	Noble	1.62	18	901.80	250	+	1945-66
03-3302.00 Baugher Lake near Washington Center	Noble	31.0	32	878.52	390	+	1945-51
03-3302.20 Wilnot Pond at Wilnot a	Noble	35.2	10	-	-	-	1945-51
03-3302.40 Webster Lake at North Webster	Kosciusko	49.2	774	852.75	-	-	1943-73
03-3302.43 James Lake at Oswego	Kosciusko	55.9	282	836.40	7,580	+	1943-73
03-3302.60 Robinson Lake near Pierceton	Kosciusko	7.15	59	851.09	1,170	+	1946-51
03-3302.80 Troy Cedar Lake near Lorane	Whitley	5.33	93	905.41	2,540	+	1945-52
03-3303.00 Ridinger Lake near Pierceton	Kosciusko	34.6	136	843.12	2,900	+	1943-73
03-3303.20 Kuhn Lake near North Webster	Kosciusko	3.85	137	837.50	1,290	+	1945-73
03-3303.40 Big Barbee Lake near North Webster	Kosciusko	44.7	304	837.50	5,640	+	1945-73
03-3303.60 Little Barbee Lake nr North Webster	Kosciusko	49.0	74	837.50	960	+	1945-73
03-3303.80 Shoe Lake near Oswego	Kosciusko	.34	40	841.57	-	-	1946-53
03-3304.00 Banning Lake near North Webster	Kosciusko	.48	12	837.50	110	+	1945-73
03-3304.20 Irish Lake near North Webster	Kosciusko	50.9	182	837.50	2,330	+	1945-73
03-3304.40 Sechrist Lake near North Webster	Kosciusko	.58	105	837.50	2,490	+	1945-73
03-3304.60 Sawmill Lake near North Webster	Kosciusko	51.8	36	837.50	370	+	1945-73
03-3304.80 Tippecanoe Lake at Oswego	Kosciusko	113	768	836.40	28,380	+	1943-73
03-3304.95 Oswego Lake at Oswego	Kosciusko	113	83	836.40	780	+	1943-73
03-3310.10 Big Chapman Lake near Warsaw b	Kosciusko	4.17	581	827.75	6,080	+	1945-72
03-3310.20 Little Chapman Lake near Warsaw	Kosciusko	7.13	177	827.75	1,990	+	1945-72
03-3310.40 Pike Lake at Warsaw	Kosciusko	41.5	203	805.64	2,830	+	1954-73
03-3310.60 Fish Lake near Warsaw	Kosciusko	4.93	15	845.52	-	-	1951-66
03-3310.80 Muskelonge Lake near Warsaw	Kosciusko	11.8	32	842.67	300	+	1943-53
03-3311.00 Carr Lake near Claypool	Kosciusko	2.27	79	848.88	1,340	+	1947-53
03-3311.20 Sherburne Lake near Pierceton c	Kosciusko	5.51	15	-	230	+	1954-73
03-3311.40 Winona Lake at Warsaw	Kosciusko	32.1	562	811.06	16,680	+	1943-73
03-3311.60 Center Lake at Warsaw	Kosciusko	.73	120	803.86	2,060	+	1945-73
03-3311.80 Palestine Lake at Palestine	Kosciusko	32.4	290	-	1,170	+	1954-73
03-3312.00 Crystal Lake near Atwood	Kosciusko	.45	76	789.69	930	+	1945-51
03-3312.20 Hoffman Lake at Atwood	Kosciusko	8.07	180	785.85	3,160	+	1945-53
03-3312.40 Beaver Dam Lake near Silver Lake	Kosciusko	2.83	146	868.95	3,280	+	1947-53
03-3312.60 Loon Lake near Silver Lake	Kosciusko	3.59	40	865.74	670	+	1947-53
03-3312.80 McClures Lake near Silver Lake	Kosciusko	1.29	32	865.85	410	+	1945-52

Lakes in the Ohio River basin for which records are available—Continued

Lake	County	Drainage Area (square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
WABASH RIVER BASIN—Continued							
03-3313.00 Hill Lake near Silver Lake	Kosciusko	0.85	67	871.50	1,300	+	1952-73
03-3313.20 Diamond Lake near Silver Lake	Kosciusko	3.92	79	-	1,280	+	1954-73
03-3313.40 Yellow Creek Lake near Silver Lake	Kosciusko	11.1	151	860.50	4,730	+	1945-53
03-3313.60 Rock Lake near Akron	Kosciusko	2.74	56	847.29	360	+	1946-66
03-3313.70 Town Lake near Akron	Fulton	2.77	23	-	220	+	1949-50
03-3313.80 Lake Manitou at Rochester	Fulton	44.2	631	778.41	-	-	1943-73
03-3313.90 Zink Lake near Rochester	Fulton	1.11	19	810.68	-	-	1952-55
03-3314.00 Nyona Lake near Greenoak	Fulton	7.59	104	793.91	1,340	+	1946-73
03-3314.20 South Mud Lake near Fulton	Fulton	4.53	94	793.42	1,020	+	1946-66
03-3314.38 King Lake near DeLong	Fulton	1.98	18	-	180	+	1971-73
03-3314.40 Maxinkuckee Lake at Culver	Marshall	13.7	1,864	733.12	45,600	+	1943-73
03-3314.60 Lost Lake near Culver d	Marshall	14.2	40	732.00	-	-	1954-73
03-3314.80 Langenbaum Lake near Monterey	Starke	.72	48	717.96	260	+	1954-66
03-3317.00 Bruce Lake at Bruce Lake	Pulaski	6.38	245	723.69	1,790	+	1943-53
03-3322.00 Fletcher Lake at Fletcher	Fulton	.67	45	783.20	880	+	1946-53
03-3709.00 Starve Hollow Lake near Vallonia	Jackson	6.67	145	-	980	+	1946-61
							1963-71
03-3717.00 Ogle Lake near Nashville	Brown	1.03	20	-	250	+	1954-73

Lakes in the St. Lawrence River basin for which records are available

STREAMS TRIBUTARY TO LAKE MICHIGAN

04-0925.00 Wolf Lake at Hammond	Lake	5.72	999	-	-	-	1946-49
04-0929.90 Lake George at Hobart	Lake	*124	282	602.23	-	-	1946-73
04-0975.20 Lake Pleasant near Nevada Mills	Steuben	*3.18	424	-	3,490	+	1954-71
04-0975.50 Lake George at Jamestown	Steuben	*14.7	488	985.28	-	-	1946-73
04-0975.96 Marsh Lake near Fremont	Steuben	*14.9	-	-	-	-	1967-69
04-0976.00 Little Otter Lake near Fremont	Steuben	*15.7	34	965.18	740	+	1946-53
04-0976.40 Big Otter Lake near Fremont	Steuben	*21.3	69	965.18	1,780	+	1946-53
04-0976.50 Snow Lake at Lake James	Steuben	*40.2	310	964.96	7,998	+	1943-49
04-0976.60 Lake James at Lake James	Steuben	*47.8	1,034	964.96	33,585	+	1943-49
04-0976.80 Jimmerson Lake at Nevada Mills e	Steuben	*51.6	283	964.66	-	-	1946-73
04-0977.80 Loon Lake near Angola	Steuben	*2.13	138	1,011.98	630	+	1954-66
04-0978.50 Crooked Lake at Crooked Lake	Steuben	*10.4	733	988.17	-	-	1946-73
04-0979.50 Lake Gage at Panama	Steuben	*17.3	324	954.25	-	-	1946-73
04-0979.60 Lime Lake at Panama	Steuben	*17.5	44	954.25	-	-	1946-73
04-0981.00 Wall Lake near Orland	Lagrange	*1.61	141	942.25	1,640	+	1953-54
04-0981.10 Mud Lake near Orland	Steuben	*1.85	25	939.01	-	-	1956-67
04-0983.00 Cedar Lake near Ontario	Lagrange	*1.60	120	871.90	1,020	+	1948-51
04-0990.50 Pigeon Lake near Angola	Steuben	*35.2	61	988.24	930	+	1954-63
04-0991.00 Fox Lake near Angola	Steuben	*1.25	142	1,018.83	3,150	+	1946-53
04-0991.90 Pleasant Lake at Pleasant Lake	Steuben	*1.12	53	963.52	1,190	+	1946-66
04-0992.00 Long Lake at Moonlight	Steuben	*67.9	92	-	1,540	+	1946-72
04-0992.50 Bower Lake near Pleasant Lake	Steuben	*84.6	25	948.50	280	+	1946-71
04-0992.60 Golden Lake near Pleasant Lake	Steuben	*88.8	119	948.50	1,810	+	1946-71
04-0994.00 Silver Lake near Angola	Steuben	*3.79	238	959.40	2,540	+	1945-53
04-0994.30 Bass Lake near Angola	Steuben	*.39	61	979.68	450	+	1954-66
04-0994.40 Howard Lake near Angola	Steuben	*3.90	27	977.34	130	+	1954-63
04-0995.00 Hogback Lake near Angola	Steuben	*103	146	948.50	1,450	+	1946-73
04-0995.20 Otter Lake near Flint	Steuben	*6.91	118	934.15	1,960	+	1954-66
04-0995.40 Story Lake near Hudson	Dekalb	*3.16	77	942.20	1,020	+	1946
							1954-66
04-0995.60 Big Turkey Lake at Stroh	Lagrange	*35.8	450	926.61	7,300	+	1945-66
04-0995.75 McClish Lake near Helmer	Lagrange	*1.28	35	951.09	1,210	+	1951-73
04-0995.80 Lake of the Woods near Helmer	Lagrange	*5.25	136	951.09	5,470	+	1951-73
04-0996.00 Big Long Lake near Stroh	Lagrange	*4.77	388	956.21	-	-	1954-73
04-0996.20 Pretty Lake near Stroh	Lagrange	*2.89	184	965.50	4,720	+	1949-53
							1963-65
04-0996.40 Little Turkey Lake at Elmira	Lagrange	*56.5	135	925.72	1,550	+	1945-66
04-0996.60 Royer Lake near Plato	Lagrange	*4.69	69	936.50	1,630	+	1952-73
04-0996.70 Fish Lake near Plato	Lagrange	*10.6	100	936.50	4,050	+	1945-73
04-0997.00 North Twin Lake near Howe	Lagrange	*1.54	135	843.56	2,120	+	1953-73
04-0997.10 South Twin Lake near Howe	Lagrange	*2.22	116	843.56	3,600	+	1953-70
04-0997.40 Shipshewana Lake near Shipshewana	Lagrange	*6.74	202	352.04	1,350	+	1951-73
04-0997.60 Fish Lake near Scott	Lagrange	*6.21	139	814.42	2,560	+	1954-73
04-0997.80 Stone Lake near Scott	Lagrange	*1.51	152	818.76	2,060	+	1954-73
04-0998.00 Emma Lake near Emma	Lagrange	*13.6	42	880.87	700	+	1954-66
04-0998.10 Cass Lake near Shipshewana	Lagrange	*.68	89	-	873	+	1970-73
04-0998.20 Hunter Lake near Middleburg	Elkhart	*.51	99	856.90	1,120	+	1946-53
04-0998.40 Wolf Lake near Goshen	Elkhart	*1.29	100	813.00	-	-	1947-57
04-0998.60 Heaton Lake near Elkhart	Elkhart	*9.33	87	767.30	640	+	1946-53
							1969-73
04-0998.80 Simonton Lake near Elkhart	Elkhart	*7.44	282	772.19	1,560	+	1946-73
04-0999.50 Indiana Lake near Bristol	Elkhart	*.62	122	759.73	3,400	+	1946-53
04-1000.10 Cree Lake near Kendallville	Noble	4.85	58	945.23	910	+	1949-66
04-1000.20 Blackman Lake near Wolcottville	Lagrange	.98	67	974.20	1,210	+	1953-59
04-1000.30 Adams Lake near Wolcottville	Lagrange	5.62	308	953.59	7,690	+	1946-73
04-1000.40 Atwood Lake near Wolcottville	Lagrange	1.23	170	899.99	1,560	+	1948-53

Lakes in the St. Lawrence River basin for which records are available--Continued

Lake	County	Drainage Area (square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued							
04-1000.50 Witmer Lake near Wolcottville	Lagrange	36.1	204	897.36	7,040	+	1945-73
04-1000.60 Westler Lake near Wolcottville	Lagrange	37.8	88	897.36	1,770	+	1945-73
04-1000.70 Dallas Lake near Wolcottville	Lagrange	39.8	283	897.36	9,970	+	1945-73
04-1000.80 Martin Lake near Valentine	Lagrange	4.93	26	899.45	890	+	1945-73
04-1000.90 Olin Lake near Valentine	Lagrange	5.81	103	899.45	9,180	+	1945-73
04-1001.00 Oliver Lake near Valentine	Lagrange	11.1	362	899.45	-	-	1945-73
04-1001.10 Hackenburg Lake near Wolcottville	Lagrange	55.4	42	897.36	510	+	1945-73
04-1001.20 Messick Lake near Wolcottville	Lagrange	16.4	68	897.36	1,450	+	1945-73
04-1001.30 Jones Lake near Cosperville f	Noble	70.3	114	885.55	960	+	1948-73
04-1001.40 Bixler Lake at Kendallville	Noble	5.28	120	963.65	2,090	+	1945-73
04-1001.50 Round Lake at Kendallville	Noble	3.47	99	954.50	2,140	+	1954-73
04-1001.60 Little Long Lake at Kendallville	Noble	4.55	71	954.50	1,750	+	1954-73
04-1001.70 Latta Lake near Rome City	Noble	2.52	42	918.71	900	+	1954-66
04-1001.80 Sylvan Lake at Rome City	Noble	33.8	575	916.20	-	-	1943-73
04-1001.90 Sacarider Lake near Kendallville	Noble	1.43	33	-	740	+	1954-63
04-1002.00 Tamarack Lake near Cosperville	Noble	15.9	50	885.55	880	+	1948-73
04-1002.10 Steinbarger Lake near Cosperville	Noble	24.3	73	885.55	1,590	+	1948-73
04-1002.20 Waldron Lake near Cosperville	Noble	134	216	885.55	3,120	+	1948-73
04-1002.30 Long Lake near Burr Oak	Noble	12.0	40	895.82	630	+	1954-71
04-1002.40 Sand Lake near Burr Oak	Noble	14.9	47	893.56	1,270	+	1946-51
04-1002.50 Rivir Lake near Burr Oak	Noble	18.6	24	-	380	+	1954-65
04-1002.58 High Lake near Wolflake	Noble	4.43	123	896.35	1,240	+	1961-73
04-1002.60 Bear Lake near Wolflake	Noble	6.98	136	894.60	3,030	+	1943-73
04-1002.80 Muncie Lake near Burr Oak	Noble	42.8	47	-	580	+	1954-73
04-1002.90 Silver Lake near Wolflake	Noble	.28	34	-	220	+	1953-63
04-1003.00 Skinner Lake near Albion	Noble	14.0	125	927.74	1,750	+	1945-72
04-1003.10 Pleasant Lake near Wolflake	Noble	.29	20	-	540	+	1952-53
04-1003.20 Upper Long Lake near Wolflake	Noble	2.08	86	-	1,900	+	1956-73
04-1003.30 Lower Long Lake near Albion	Noble	4.35	66	889.81	1,560	+	1946-52
04-1003.40 Eagle Lake near Kimmel	Noble	3.22	81	-	1,050	+	1946-48
04-1003.50 Diamond Lake near Wawaka	Noble	4.80	105	-	2,580	+	1946-73
04-1003.60 Sparta Lake at Kimmel	Noble	.69	31	888.50	170	+	1946-51
04-1003.70 Engle Lake near Ligonier	Noble	14.19	48	-	670	+	1956-71
04-1003.80 Harper Lake near Washington Center	Noble	2.76	11	878.25	160	+	1946-73
04-1003.90 Knapp Lake near Washington Center	Noble	6.02	88	878.25	3,040	+	1946-73
04-1004.00 Moss Lake near Washington Center	Noble	6.12	9	878.25	80	+	1946-73
04-1004.10 Hindman Lake near Washington Center	Noble	8.66	13	878.25	140	+	1946-73
04-1004.20 Gordy Lake near Cromwell	Noble	9.40	31	876.68	680	+	1953-66
04-1004.25 Rider Lake near Cromwell	Noble	10.9	5	876.68	30	+	1953-66
04-1004.30 Duely Lake near Cromwell g	Noble	11.2	21	876.68	180	+	1953-66
04-1004.40 Village Lake near Cromwell	Noble	12.0	12	876.68	160	+	1953-66
04-1004.46 Flatbelly Lake near Syracuse	Kosciusko	4.66	326	-	-	-	1964-69
04-1004.48 Papakeechie Lake near Syracuse	Kosciusko	5.52	300	-	-	-	1964-69
04-1004.50 Wawasee Lake at Wawasee	Kosciusko	36.9	3,060	858.89	67,210	+	1943-66
04-1004.60 Syracuse Lake at Syracuse	Kosciusko	38.2	414	858.87	5,360	+	1943-73
04-1004.70 Dewart Lake near Leesburg	Kosciusko	18.05	551	867.70	9,000	+	1945-73
04-1004.80 Wabee Lake near Milford	Kosciusko	114.6	187	829.79	4,750	+	1946-53

STREAMS TRIBUTARY TO LAKE ERIE

04-1772.00 Clear Lake at Clear Lake	Steuben	6.86	800	1,037.38	24,990	+	1943-72
04-1772.10 Round Lake at Clear Lake	Steuben	7.25	30	1,037.38	340	+	1943-72
04-1773.00 Long Lake near Ray	Steuben	2.80	154	-	1,840	+	1961-63
04-1776.80 Ball Lake near Hamilton	Steuben	11.6	87	-	3,520	+	1961-72
04-1777.00 Hamilton Lake at Hamilton	Steuben	16.5	302	898.83	16,600	+	1943-72
04-1792.00 Indian Lake near Cornua	Dekalb	3.76	56	-	1,220	+	1957
04-1793.00 Cedar Lake near Waterloo	Dekalb	23.4	28	896.76	230	+	1943-56

Lakes in the Upper Mississippi River basin for which records are available

ILLINOIS RIVER BASIN

05-5147.40 Saugany Lake near Rolling Prairie	Laporte	12.34	74	781.21	2,190	+	1946-50
05-5147.41 Hudson Lake at Hudson Lake	Laporte	7.92	432	763.09	5,060	+	1946-72
05-5147.50 North Chain Lake at Lydick	St. Joseph	13.89	88	721.17	1,400	+	1946-53
05-5147.60 South Chain Lake at Westfield	St. Joseph	16.32	90	717.04	270	-	1946-53
05-5147.70 Wharton Lake near South Bend	St. Joseph	1.85	-	-	-	-	1960-72
05-5149.00 Silver Lake near Rolling Prairie	LaPorte	1.72	54	795.20	-	-	1946-66
05-5152.00 Upper Fish Lake near Stillwell	LaPorte	19.65	139	688.22	1,040	+	1946-53
05-5152.10 Lower Fish Lake near Stillwell	LaPorte	110.4	134	588.22	870	+	1946-53
05-5152.20 Pine Lake at LaPorte	LaPorte	110.7	564	796.20	-	-	1946-73
05-5152.30 Stone Lake at LaPorte	LaPorte	110.7	140	796.20	-	-	1946-73
05-5152.40 Clear Lake at LaPorte	LaPorte	.65	106	798.20	760	+	1942-49
							1952-73
05-5156.00 Koontz Lake at Koontz Lake	Starka	16.25	346	714.56	3,170	+	1943-73
05-5158.00 Riddle Lake near Lakeville	St. Joseph	111.7	77	817.50	640	+	1946-73
05-5162.00 Lake of the Woods near Bremen	Marshall	19.45	416	803.85	6,810	+	1945-73
05-5166.00 Pretty Lake near Plymouth	Marshall	.85	97	787.36	1,140	+	1954-66

Lakes in the Upper Mississippi River basin for which records are available--Continued

Lake	County	Drainage Area (square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
ILLINOIS RIVER BASIN--Continued							
05-5167.00 Myers Lake near Twin Lakes	Marshall	1.41	96	768.69	2,000	+	1945-53
05-5168.00 Mill Pond and Kreighbaum Lake near Twin Lakes	Marshall	h5.34	168	767.75	1,020	+	1945-53
05-5169.00 Eagle Lake near Ober	Starke	h25.5	24	713.25	160	+	1946-53
05-5171.00 Skitz Lake near Knox	Starke	-	1,000	-	-	-	1949-53
05-5172.00 Bass Lake at Bass Lake	Starke	5.18	1,400	713.65	-	-	1943-73
05-5176.00 Wauhob Lake near Valparaiso	Porter	.40	27	-	-	-	1946-73
05-5176.50 Long Lake near Valparaiso	Porter	1.31	65	797.66	520	+	1947-52
05-5176.70 Spectacle Lake near Valparaiso	Porter	.53	62	812.82	540	+	1946-53
05-5177.00 Flint Lake near Valparaiso	Porter	2.62	86	797.66	-	-	1946-73
05-5178.00 Eliza Lake near Beatrice	Porter	1.70	45	-	-	-	1954-73
05-5187.00 Cedar Lake at Cedar Lake	Lake	8.14	781	-	6,750	+	1943-73
05-5188.00 Dalecarlia Lake near Creston	Lake	20.1	193	-	-	-	1947-52
05-5213.00 Ringneck Lake near Medaryville	Jasper	1.94	1,400	-	-	-	1949-55
05-5257.00 J.C. Murphy Lake near Morocco	Newton	13.0	1,515	-	-	-	1952-61

- + Depth contour maps available for sale by Indiana Department of Natural Resources, State Office Building, Indianapolis, Indiana.
- * Revised.
- xx Elevation, in feet, above mean sea level.
- a Formerly published as Rider Lake at Wilmot.
- b Formerly published as Chapman Lake near Warsaw.
- c Formerly published as Johnson Lake near Pierceton.
- d Formerly published as Hawks Lake near Culver.
- e Formerly published as Jimmerson Lake at Nevada Mills.
- f Formerly published as Sanford Lake near Cosperville.
- g Formerly published as Duley Lake near Cromwell, and Druley Lake near Cromwell.
- h Contains drainage area (5 percent or greater) that does not contribute directly to surface-water runoff.

The lakes in Indiana which are not included in the cooperative stabilization program but which have been mapped for recreational purposes are shown in the following table. Surface areas and capacities are related to reference mean sea level elevation at time of mapping. Additional data is shown on map which are available for sale by the Indiana Department of Natural Resources, State Office Building, Indianapolis, Indiana.

Lake	County	Surface Area (acres)	Capacity (acre-feet)	Lake	County	Surface Area (acres)	Capacity (acre-feet)
OHIO RIVER BASIN							
Barr Lake	Fulton	22	470	Lake 16	Fulton	27	220
Bischoff Reservoir	Ripley	200	1920	Larwill Lake	Whitley	9	170
Black Lake	Whitley	24	400	Lenape Lake	Greene	36	330
Bowen Lake	Scott	7	60	Lincoln Park Lake	Spencer	58	520
Brown Lake	Whitley	23	580	Little Pike Lake	Kosciusko	25	140
Caldwell Lake	Kosciusko	45	800	McColley Lake	Wabash	28	410
Crane Lake	Noble	28	360	Round Lake	Wabash	48	540
Crosley Lake	Jennings	14	130	Scales Lake	Warrick	66	520
Ferdinand Lake	Dubois	42	440	Schlamm Lake	Clark	19	170
Frank Lake	Clark	9	70	Sellers Lake	Kosciusko	32	340
Hartz Lake	Starke	28	370	Shakanak Lake	Clay	56	610
Kunkel Lake	Wells	25	150	Twin Lakes	Wabash	18	190
Lake Freeman	Carroll	1547	26,000	Whitewater Lake	Union	199	3650
Lake Shafer	White	1291	13,120	Yellowwood Lake	Brown	133	1890
STREAMS TRIBUTARY TO LAKE MICHIGAN							
Appleman Lake	Lagrange	52	590	Mateer Lake	Lagrange	18	150
Bartley Lake	Noble	34	430	Miller Lake	Noble	11	160
Barton Lake	Steuben	94	1340	Millers Lake	Noble	28	410
Bell Lake	Steuben	38	510	Mud Lake	Noble	8	70
Boner Lake	Kosciusko	40	370	Norman Lake	Noble	14	280
Bowen Lake	Noble	30	1080	Pigeon Lake	Lagrange	61	1160
Bristol Lake	Noble	27	740	Port Mitchell Lake	Noble	15	180
Buck Lake	Lagrange	18	150	Rainbow Lake	Lagrange	16	250
Center Lake	Steuben	46	390	Schockopee Lake	Noble	21	280
Cline Lake	Lagrange	20	350	Shock Lake	Kosciusko	37	1210
Deer Lake	Noble	36	420	Smith Hole	Lagrange	2	10
Dock Lake	Noble	16	230	Still Lake	Lagrange	30	620
Eve Lake	Lagrange	31	670	Sweet Lake	Noble	16	210
Fish Lake	Steuben	59	750	Tamarack Lake	Noble	84	1340
Hog Lake	LaPorte	59	690	Walters Lake	Steuben	53	550
Hog Lake	Steuben	48	570	Weir Lake	LaGrange	6	70
Lime Lake	Steuben	30	330	Wible Lake	Noble	49	650
Little Turkey Lake	Steuben	58	780	Williams Lake	Noble	46	1070
Marl Lake	Noble	30	510	Wyland Lake	Kosciusko	6	100
STREAMS TRIBUTARY TO LAKE ERIE							
Dunton Lake	Dekalb	21	340	Mirror Lake	Steuben	9	120
Handy Lake	Steuben	16	290	Terry Lake	Dekalb	17	160
Lake Anne	Steuben	17	280				
UPPER MISSISSIPPI RIVER BASIN							
Cook Lake	Marshall	93	1,650	Gilbert Lake	Marshall	37	490
Dixon Lake	Marshall	33	480	Holom Lake	Marshall	40	390
Flat Lake	Marshall	26	210	Lawrence Lake	Marshall	69	1580

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